

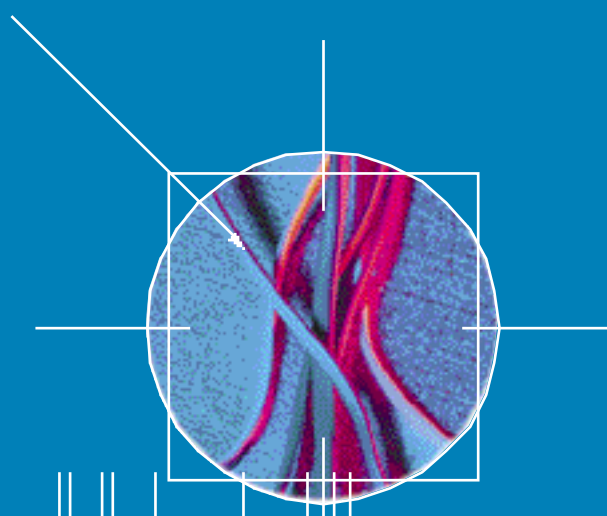
# Portuguese Frequency Allocation Table

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June 2000



Introduction

Portuguese Frequency  
*Allocation Table*

# 1. Introduction

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The *National Frequency Allocation Table* contains the detailed division of the radio spectrum, specifying for each frequency band the allocated radiocommunications services. This table is based on agreements established on a national and international basis.

The responsibility for the national management of the spectrum is entrusted by law to the Instituto das Comunicações de Portugal (ICP), the authority that controls the national communications, under the auspices of the Ministry of Equipment, Planning and Territory Administration. The ICP is responsible for the national allocation of frequency bands to services and the assignment of frequencies to radio stations, as well as for the supervision of the use thereof. This function covers all public and private bodies, whether they are telecommunications operators or service providers, broadcasters or private users of radio networks.

With the aim to fulfil military and associated purposes, the management of parts of the radio spectrum has been delegated to the Estado-Maior-General das Forças Armadas (EMGFA).

The management of the radio spectrum requires the accomplishment of a series of technical and administrative procedures, the purpose of which is to ensure the operation of radio stations by the various radiocommunications services and avoiding interference problems.

Given the growth of services that use the radio spectrum, it is currently almost impossible to grant exclusive frequency bands to a single radiocommunications service. The various allocations are therefore made on a shared basis, in terms of time, space or frequency, with the purpose of improving the use of spectrum. It is consequently vital to coordinate the use of radio frequencies by different services on a world-wide basis, after its national and international planning; the International Telecommunications Union (ITU) and the Conference of European Postal and Telecommunications Administrations (CEPT) play a very active role on these activities.

The ITU is an intergovernmental organisation composed by 184 Member States and is responsible for the regulation, standardisation and development of telecommunications of all kinds, including broadcasting and computer communications. It is also the United Nations specialised agency for telecommunications. The international planning of the frequency allocations is based on agreements between States, under the guidance of the Radiocommunications Sector of the ITU.

The CEPT leads the international planning on an European basis. Portugal is one of the 43 Members of this Organisation and participates in many activities that are under development on its working groups, in areas such as Spectrum Engineering, Frequency Management, Radio Regulatory and European Preparation for ITU Conferences. From a spectrum management's point of view, many actions have been undertaken to harmonise on an European basis the spectrum usage: the implementation of recommendations and decisions prepared by this Organisation are examples of those actions.

The Radio Regulations (RR), a document published by the ITU and resulting from the agreements made between its Members, is an international treaty that has to be respected by the 184 Members of the Organisation. This document contains the rules of spectrum usage as well as associated rights and obligations. The *National Frequency Allocation Table* is derived from this treaty, specifically from its Article S5. The Article S5 of the RR contains the Frequency Allocation Table for the three regions of the world and specifies the existing and planned services for each frequency band.

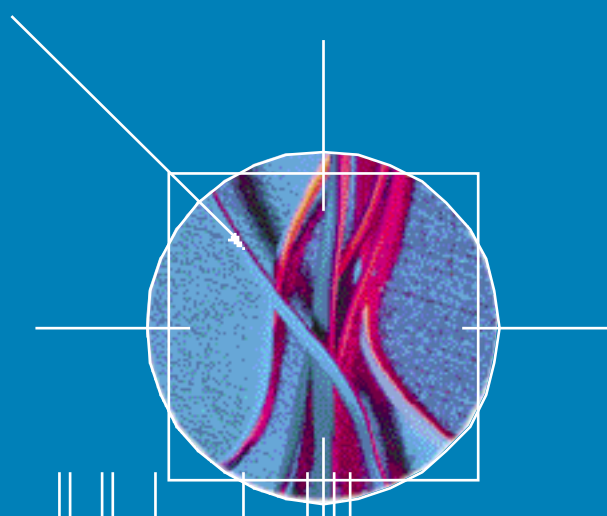


The Frequency Allocation Table contained in Article S5, as well as the remaining Articles, Appendices, Resolutions and Recommendations of the RR, may only be modified by World Radiocommunications Conferences (WRCs), which take place every two or three years.

As a consequence to the modifications made by the World Radiocommunications Conferences to the RR, as well as to the analysis of the market evolution on a national and European-wide basis, the *National Frequency Allocation Table* is regularly updated.

The *National Frequency Allocation Table* does also contain the services and systems in use in Portugal as well as the main ones planned for the future, notwithstanding future decisions that may be taken through deliberation by the ICP board.

The use of the spectrum, even if in line with the current *National Frequency Allocation Table*, must have prior approval of the ICP.



Definitions

Portuguese Frequency  
*Allocation Table*

## 2. Definitions

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### **Allocation (of a frequency band):**

Entry in the Table of Frequency Allocations of a given frequency band for the purpose of its use by one or more terrestrial or space radiocommunication services or the radio astronomy service under specified conditions. This term shall also be applied to the frequency band concerned.

### **Allotment (of a radio frequency or radio frequency channel):**

Entry of a designated frequency channel in an agreed plan, adopted by a competent conference, for use by one or more administrations for a terrestrial or space radiocommunication service in one or more identified countries or geographical areas and under specified conditions.

### **Assignment (of a radio frequency or radio frequency channel):**

Authorization given by an administration for a radio station to use a radio frequency or radio frequency channel under specified conditions.

### **Radiocommunication Service:**

A service involving the transmission, emission and/or reception of radio waves for specific telecommunication purposes.

Unless otherwise stated, any radiocommunication service relates to terrestrial radiocommunication.

### **Fixed Service (FIX):**

A radiocommunication service between specified fixed points.

### **Fixed-Satellite Service (FIX-S):**

A radiocommunication service between earth stations at given positions, when one or more satellites are used; the given position may be a specified fixed point or any fixed point within specified areas; in some cases this service includes satellite-to-satellite links, which may also be operated in the inter-satellite service; the fixed-satellite service may also include feeder links for other space radiocommunication services.

### **Inter-Satellite Service (INT-S):**

A radiocommunication service providing links between artificial satellites.

### **Space Operation Service (OE):**

A radiocommunication service concerned exclusively with the operation of spacecraft, in particular space tracking, space telemetry and space telecommand. These functions will normally be provided within the service in which the space station is operating.

### **Mobile Service (MOV):**

A radiocommunication service between mobile and land stations, or between mobile stations (CV).

### **Mobile-Satellite Service (MV-S):**

A radiocommunication service between mobile earth stations and one or more space stations, or between space stations used by this service, or between mobile earth stations by means of one or more space stations.

This service may also include feeder links necessary for its operation.

**Land Mobile Service (MT):**

A mobile service between base stations and land mobile stations, or between land mobile stations.

**Land Mobile-Satellite Service (MT-S):**

A mobile-satellite service in which mobile earth stations are located on land.

**Maritime Mobile Service (MM):**

A mobile service between coast stations and ship stations, or between ship stations, or between associated on-board communication stations; survival craft stations and emergency position-indicating radiobeacon stations may also participate in this service.

**Maritime Mobile-Satellite Service (MM-S):**

A mobile-satellite service in which mobile earth stations are located on board ships; survival craft stations and emergency position-indicating radiobeacon stations may also participate in this service.

**Port Operations Service (OP):**

A maritime mobile service in or near a port, between coast stations and ship stations, or between ship stations, in which messages are restricted to those relating to the operational handling, the movement and the safety of ships and, in emergency, to the safety of persons.

Messages which are of a public correspondence nature shall be excluded from this service.

**Ship Movement Service (ONS):**

A safety service in the maritime mobile service other than a port operations service, between coast stations and ship stations, or between ship stations, in which messages are restricted to those relating to the movement of ships.

Messages which are of a public correspondence nature shall be excluded from this service.

**Aeronautical Mobile Service (MA):**

A mobile service between aeronautical stations and aircraft stations, or between aircraft stations, in which survival craft stations may participate; emergency position-indicating radiobeacon stations may also participate in this service on designated distress and emergency frequencies.

**Aeronautical Mobile (R)\* Service (MAR):**

An aeronautical mobile service reserved for communications relating to safety and regularity of flight, primarily along national or international civil air routes.

\* (R): route.

**Aeronautical Mobile (OR)\*\* Service (MAOR):**

An aeronautical mobile service intended for communications, including those relating to flight coordination, primarily outside national or international civil air routes.

\*\* (OR): off-route.



**Aeronautical Mobile-Satellite Service (MA-S):**

A mobile-satellite service in which mobile earth stations are located on board aircraft; survival craft stations and emergency position-indicating radiobeacon stations may also participate in this service

**Aeronautical Mobile-Satellite (R)\* Service (MAR-S):**

An aeronautical mobile-satellite service reserved for communications relating to safety and regularity of flights, primarily along national or international civil air routes.

\* (R): route.

**Aeronautical Mobile-Satellite (OR)\*\* Service (MAO-S):**

An aeronautical mobile-satellite service intended for communications, including those relating to flight coordination, primarily outside national and international civil air routes.

\*\* (OR): off-route.

**Broadcasting Service (RAD):**

A radiocommunication service in which the transmissions are intended for direct reception by the general public. This service may include sound transmissions, television transmissions or other types of transmission (CS).

**Broadcasting-Satellite Service (RAD-S):**

A radiocommunication service in which signals transmitted or retransmitted by space stations are intended for direct reception by the general public.

In the broadcasting-satellite service, the term "direct reception" shall encompass both individual reception and community reception.

**Radiodetermination Service (RDT):**

A radiocommunication service for the purpose of radiodetermination.

**Radiodetermination-Satellite Service (RDT-S):**

A radiocommunication service for the purpose of radiodetermination involving the use of one or more space stations.

This service may also include feeder links necessary for its own operation.

**Radionavigation Service (RV):**

A radiodetermination service for the purpose of radionavigation.

**Radionavigation-Satellite Service (RV-S):**

A radiodetermination-satellite service used for the purpose of radionavigation.

This service may also include feeder links necessary for its operation.

**Maritime Radionavigation Service (RVM):**

A radionavigation service intended for the benefit and for the safe operation of ships.

**Maritime Radionavigation-Satellite Service (RVM-S):**

A radionavigation-satellite service in which earth stations are located on board ships.

**Aeronautical Radionavigation Service (RVA):**

A radionavigation service intended for the benefit and for the safe operation of aircraft.

**Aeronautical Radionavigation-Satellite Service (RVA-S):**

A radionavigation-satellite service in which earth stations are located on board aircraft.

**Radiolocation Service (RLC):**

A radiodetermination service for the purpose of radiolocation.

**Radiolocation-Satellite Service (RLC-S):**

A radiodetermination-satellite service used for the purpose of radiolocation.

This service may also include the feeder links necessary for its operation.

**Meteorological Aids Service (METAX):**

A radiocommunication service used for meteorological, including hydrological, observations and exploration.

**Earth Exploration-Satellite Service (EXP-S):**

A radiocommunication service between earth stations and one or more space stations, which may include links between space stations, in which:

- information relating to the characteristics of the Earth and its natural phenomena, including data relating to the state of the environment, is obtained from active sensors or passive sensors on Earth satellites;
- similar information is collected from airborne or Earth-based platforms;

Such information may be distributed to earth stations within the system concerned.

Platform interrogation may be included.

This service may also include feeder links necessary for its operation.

**Meteorological-Satellite Service (MET-S):**

An earth exploration-satellite service for meteorological purposes.

**Standard Frequency and Time Signal Service (FPH):**

A radiocommunication service for scientific, technical and other purposes, providing the transmission of specified frequencies, time signals, or both, of stated high precision, intended for general reception.

**Standard Frequency and Time Signal-Satellite Service (FPH-S):**

A radiocommunication service using space stations on earth satellites for the same purposes as those of the standard frequency and time signal service.

This service may also include feeder links necessary for its operation.

**Space Research Service (INVES):**

A radiocommunication service in which spacecraft or other objects in space are used for scientific or technological research purposes.

**Amateur Service (AM):**

A radiocommunication service for the purpose of self-training, intercommunication and technical investigations carried out by amateurs, that is, by duly authorized persons interested in radio technique solely with a personal aim and without pecuniary interest.

**Amateur-Satellite Service (AM-S):**

A radiocommunication service using space stations on earth satellites for the same purposes as those of the amateur service.

**Radio Astronomy Service (RAST):**

A service involving the use of radio astronomy.

**Safety Service (SEG):**

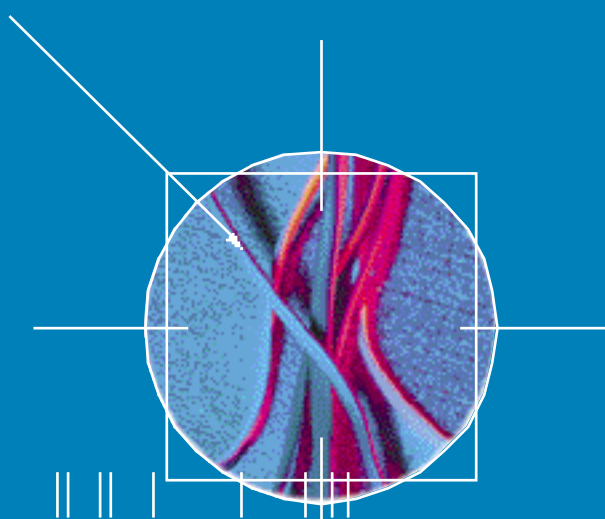
Any radiocommunication service used permanently or temporarily for the safeguarding of human life and property.

**Special Service (ESP):**

A radiocommunication service not otherwise defined, carried on exclusively for specific needs of general utility, and not open to public correspondence.

**Industrial, Scientific and Medical Applications (of radio frequency energy) (ISM):**

Operation of equipment or appliances designed to generate and use locally radio frequency energy for industrial, scientific, medical, domestic or similar purposes, excluding applications in the field of telecommunications.



## Portuguese Frequency Allocation Table

Portuguese Frequency  
*Allocation Table*

### 3. Portuguese Frequency Allocation Table

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#### Column 1: FREQUENCY BANDS

Shows the frequency band to which each line of the table is related to.

#### Column 2: ITU ALLOCATIONS FROM THE RR (Art. S5) APPLICABLE TO PORTUGAL

Contains, for each frequency band:

- allocation from Art. S5 of the RR applied to Portugal;
- Services authorised in Portugal (marked in **bold**);
- Notes from Art.S5 of the RR applied to Portugal;
- Notes within parenthesis are related to additional allocations, alternative or different categories of services for Portugal;
- Footnotes added by WRC-2000 do not follow ordinal numbering;
- Footnotes marked with an asterisk (\*) have been included or modified by WRC-2000 as described in the lists annexed to the Table.

#### Column 3: PORTUGUESE USAGE

Services / systems authorised in Portugal (marked in **bold**) and main planned services / systems.

#### Column 4: NOTES

Planning used;

Relevant national and international norms;

Conditioning to the usage of bands;

Other relevant information.

**Annex:** The Annex to the Table lists the footnotes that are relevant to the decisions taken by WRC-2000

**1<sup>st</sup>)** Footnotes added by WRC-2000

**2<sup>nd</sup>)** Footnotes modified by WRC-2000

**3<sup>rd</sup>)** Footnotes suppressed by WRC-2000 (that were included in the last edition of the Portuguese Frequency Allocation Table)

FREQUENCY BAND (KHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
Below 9	(Not allocated) S5.53, S5.54		
9 - 14	<b>RADIONAVIGATION</b>	<b>OMEGA system (RV)</b> (10,2 kHz; 11,33 kHz and 13,6 kHz)  <b>SRD – Inductive applications:</b> car immobilisers (9-135 kHz)	CEPT/ERC/REC 70-03 Annex 9 National regulation no. 649/95 of 22/6
14 - 19,95	FIXED  MARITIME MOBILE S5.57  S5.56	<b>SRD – Inductive applications:</b> car immobilisers (9-135 kHz)	CEPT/ERC/REC 70-03 Annex 9 National regulation no. 649/95 of 22/6  Government
19,95 - 20,05	STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)	<b>SRD – Inductive applications:</b> car immobilisers (9-135 kHz)	CEPT/ERC/REC 70-03 Annex 9 National regulation no. 649/95 of 22/6 Government
20,05 - 70	FIXED  MARITIME MOBILE S5.57  S5.56	<b>SRD – Inductive applications:</b> car immobilisers (9-135 kHz)	CEPT/ERC/REC 70-03 Annex 9 National regulation no. 649/95 of 22/6 Government
70 - 72	<b>RADIONAVIGATION</b> S5.60	<b>DECCA system (RV)</b>  <b>SRD – Inductive applications:</b> car immobilisers (9-135 kHz)	CEPT/ERC/REC 70-03 Annex 9 National regulation no. 649/95 of 22/6
72 - 84	FIXED  MARITIME MOBILE S5.57  RADIONAVIGATION S5.60  S5.56	<b>SRD – Inductive applications:</b> car immobilisers (9-135 kHz)	CEPT/ERC/REC 70-03 Annex 9 National regulation no. 649/95 of 22/6
84 - 86	<b>RADIONAVIGATION</b> S5.60	<b>DECCA system (RV)</b>  <b>SRD – Inductive applications:</b> car immobilisers (9-135 kHz)	CEPT/ERC/REC 70-03 Annex 9 National regulation no. 649/95 of 22/6

FREQUENCY BAND (KHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
86 - 90	FIXED  MARITIME MOBILE S5.57  RADIONAVIGATION  S5.56	    <b>SRD – Inductive applications: car immobilisers (9-135 kHz)</b>	    CEPT/ERC/REC 70-03 Annex 9 National regulation no. 649/95 of 22/6
90 - 110	<b>RADIONAVIGATION S5.62</b>  Fixed  S5.64	<b>LORAN-C system (RV) (100 kHz)</b>  <b>SRD – Inductive applications: car immobilisers (9-135 kHz)</b>	    CEPT/ERC/REC 70-03 Annex 9 National regulation no. 649/95 of 22/6
110 - 112	FIXED  MARITIME MOBILE  RADIONAVIGATION  S5.64	    <b>SRD – Inductive applications: car immobilisers (9-135 kHz)</b>	    CEPT/ERC/REC 70-03 Annex 9 National regulation no. 649/95 of 22/6
112 - 115	<b>RADIONAVIGATION S5.60</b>	<b>DECCA system (RV)</b>  <b>SRD – Inductive applications: car immobilisers (9-135 kHz)</b>	    CEPT/ERC/REC 70-03 Annex 9 National regulation no. 649/95 of 22/6
115 - 1176	RADIONAVIGATION S5.60  Fixed  Maritime mobile  S5.64	    <b>SRD – Inductive applications: car immobilisers (9-135 kHz)</b>	    CEPT/ERC/REC 70-03 Annex 9 National regulation no. 649/95 of 22/6
117,6 - 126	FIXED  MARITIME MOBILE  RADIONAVIGATION S5.60  S5.64	    <b>SRD – Inductive applications: car immobilisers (9-135 kHz)</b>	    CEPT/ERC/REC 70-03 Annex 9 National regulation no. 649/95 of 22/6
126 - 129	<b>RADIONAVIGATION S5.60</b>	<b>DECCA system (RV)</b>  <b>SRD – Inductive applications: car immobilisers (9-135 kHz)</b>	    CEPT/ERC/REC 70-03 Annex 9 National regulation no. 649/95 of 22/6

FREQUENCY BAND (KHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
129 - 130	FIXED  MARITIME MOBILE  RADIONAVIGATION S5.60  S5.64	<b>SRD – Inductive applications: car immobilisers (9-135 kHz)</b>	CEPT/ERC/REC 70-03 Annex 9 National regulation no. 649/95 of 22/6
130 - 148,5	FIXED  MARITIME MOBILE  S5.64	<b>SRD – Inductive applications: car immobilisers (9-135 kHz)</b>	CEPT/ERC/REC 70-03 Annex 9 National regulation no. 649/95 of 22/6  Government (137,8-148,5kHz)
148,5 - 255	BROADCASTING		
255 - 283,5	BROADCASTING  <b>AERONAUTICAL RADIONAVIGATION</b>	<b>NDB – Radiobeacons (RVA)</b>	ICAO – (Annex 10)
283,5 - 315	<b>AERONAUTICAL RADIONAVIGATION</b>  <b>MARITIME RADIONAVIGATION (radiobeacons) S5.73</b>  S5.74	<b>NDB – Radiobeacons (RVA)</b>  <b>OMEGA DIFFERENTIAL system (RV) (285-315 kHz)</b>  <b>NDB – Radiobeacons (RVM)</b>	ICAO – (Annex 10)  GE-85 (Radiobeacons)
315 - 325	<b>AERONAUTICAL RADIONAVIGATION</b>  Maritime radionavigation (radiobeacons) S5.73	<b>NDB – Radiobeacons (RVA)</b>  <b>OMEGA DIFFERENTIAL system (RV)</b>	ICAO – (Annex 10)
325 - 405	<b>AERONAUTICAL RADIONAVIGATION</b>	<b>NDB and LOCATOR – radiobeacons (RVA)</b>  <b>OMEGA DIFFERENTIAL system (RV)</b>	ICAO – (Annex 10)
405 - 415	<b>RADIONAVIGATION S5.76</b>	<b>OMEGA DIFFERENTIAL system (RV)</b>	
415 - 435	<b>MARITIME MOBILE S5.79</b>  <b>AERONAUTICAL RADIONAVIGATION</b>	<b>Maritime mobile (MM)</b>  <b>NDB and LOCATOR - radiobeacons (RVA)</b>	GE-85  ICAO – (Annex 10)
435 - 495	<b>MARITIME MOBILE S5.79, S5.79A</b>  Aeronautical radionavigation  S5.82	<b>Maritime mobile (MM)</b>	GE-85  Government



FREQUENCY BAND (KHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
495 - 505	<b>MOBILE</b> (distress and calling) S5.83	<b>Mobile (MOV)</b>	RR Ap. S13 (RR 3010): 500 kHz
505 - 526,5	<b>MARITIME MOBILE</b> S5.79, S5.79A, S5.84  <b>AERONAUTICAL RADIONAVIGATION</b>	<b>Maritime mobile (MM)</b>  <b>NAVTEX – International system (MM) (518 kHz)</b>  <b>NDB – Radiobeacons (RVA) (510-526,5 kHz)</b>	GE-85  ICAO – (Annex 10)
526,5 - 1606,5	<b>BROADCASTING</b>	<b>Sound broadcasting (RAD)</b>	GE-75
1606,5 - 1625	FIXED  <b>MARITIME MOBILE</b> S5.90  LAND MOBILE  S5.92	<b>Maritime mobile (MM)</b>	GE-85  Government
1625 - 1635	RADIOLOCATION		
1635 - 1800	FIXED  <b>MARITIME MOBILE</b> S5.90  LAND MOBILE  S5.92	<b>Maritime mobile (MM)</b>	GE-85  Government (1715-1800 kHz)
1800 - 1810	RADIOLOCATION		
1810 - 1850	<b>AMATEUR</b>  S5.100	<b>Amateur (AM)</b>	Amateur national regulations CEPT Rec T/R 61-01
1850 - 2000	FIXED  MOBILE except aeronautical mobile  S5.92, S5.103		Government
2000 - 2025	FIXED  MOBILE except aeronautical mobile (R)  S5.92, S5.103		Government

FREQUENCY BAND (KHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
2025 - 2045	FIXED  MOBILE except aeronautical mobile (R)  Meteorological aids S5.104  S5.92, S5.103		Government
2045 - 2160	FIXED  <b>MARITIME MOBILE</b>  LAND MOBILE  S5.92	<b>Maritime mobile (MM)</b>	GE-85  Government (2140-2160 kHz)
2160 - 2170	RADIOLOCATION		
2170 - 2173,5	MARITIME MOBILE		
2173,5 - 2190,5	<b>MOBILE (distress and calling)</b>  S5.108, S5.109, S5.110, S5.111	<b>Mobile (distress and calling)</b>	RR Ap. S13 (RR 3010): 2174,5 kHz; 2182 kHz e 2187,5 kHz
2190,5 - 2194	MARITIME MOBILE		
2194 - 2300	FIXED  MOBILE except aeronautical mobile (R)  S5.92, S5.103		Government
2300 - 2498	FIXED  MOBILE except aeronautical mobile (R)  BROADCASTING S5.113  S5.103		Government
2498 - 2501	STANDARD FREQUENCY AND TIME SIGNAL (2500 kHz)		
2501 - 2502	STANDARD FREQUENCY AND TIME SIGNAL  Space research		
2502 - 2625	FIXED  MOBILE except aeronautical mobile (R)  S5.92, S5.103		Government

FREQUENCY BAND (KHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
2625 - 2650	MARITIME MOBILE MARITIME RADIONAVIGATION S5.92		Government
2650 - 2850	<b>FIXED</b> <b>MOBILE</b> except aeronautical mobile (R) S5.92, S5.103	<b>Fixed (FIX)</b> <b>Mobile (MOV)</b>	Government
2850 - 3025	<b>AERONAUTICAL MOBILE (R)</b> S5.111, S5.115	<b>Aeronautical mobile (MAR)</b>	RR Ap. S27 (Ap. 27 Aer2)
3025 - 3155	<b>AERONAUTICAL MOBILE (OR)</b>	<b>Aeronautical mobile (MAOR)</b>	RR Ap. S26 (Ap. 26) Government
3155 - 3200	<b>FIXED</b> <b>MOBILE</b> except aeronautical mobile (R) S5.116	<b>Fixed (FIX)</b> <b>Mobile (MOV)</b>	Government
3200 - 3230	<b>FIXED</b> <b>MOBILE</b> except aeronautical mobile (R) BROADCASTING S5.113 S5.116	<b>Fixed (FIX)</b> <b>Mobile (MOV)</b>	
3230 - 3400	<b>FIXED</b> <b>MOBILE</b> except aeronautical mobile BROADCASTING S5.113 S5.116	<b>Fixed (FIX)</b> <b>Mobile (MOV)</b>	Government (3375-3400 kHz)
3400 - 3500	<b>AERONAUTICAL MOBILE (R)</b>	<b>Aeronautical mobile (MAR)</b>	RR Ap. S27 (Ap. 27 Aer2)
3500 - 3800	<b>AMATEUR</b> <b>FIXED</b> <b>MOBILE</b> except aeronautical mobile S5.92	<b>Amateur (AM)</b> <b>Fixed (FIX)</b> <b>Mobile (MOV)</b>	Amateur national regulations CEPT Rec T/R 61-01

FREQUENCY BAND (KHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
3800 - 3900	<b>FIXED</b> <b>AERONAUTICAL MOBILE (OR)</b> <b>LAND MOBILE</b>	<b>Fixed (FIX)</b> <b>Aeronautical mobile (MAOR)</b> <b>Land mobile (MT)</b>	Government
3900 - 3950	<b>AERONAUTICAL MOBILE (OR)</b>	<b>Aeronautical mobile (MAOR)</b>	RR Ap. S26 (Ap. 26) Government
3950 - 4000	<b>FIXED</b> BROADCASTING	<b>Fixed (FIX)</b>	Government
4000 - 4063	<b>FIXED</b> MÓVEL MARÍTIMO S5.127	<b>Fixed (FIX)</b>	Government
4063 - 4438	<b>MARITIME MOBILE</b> S5.79A, S5.109, S5.110, S5.130, S5.131, S5.132  S5.129	<b>Maritime mobile (MM)</b>	RR Ap. S17 (Ap. 16): (4065-4152 kHz; 4351-4438 kHz)  RR Ap. S25 (Ap. 25): (4351-4438 kHz)  RR Ap. S17 (Ap. 31)  RR Ap. S17 (Ap. 32): (4209,25-4219,25 kHz)  RR Ap. S17 (Ap. 33): (4202,25-4207,25 kHz)  RR Ap. S13 (RR 3010): (4125 kHz; 4177,5 kHz e 4207,5 kHz)  Government (4152-4172 kHz; 4221-4351 kHz)
4438 - 4650	<b>FIXED</b> <b>MOBILE except aeronautical mobile (R)</b>	<b>Fixed (FIX)</b> <b>Mobile (MOV)</b>	Government
4650 - 4700	<b>AERONAUTICAL MOBILE (R)</b>	<b>Aeronautical mobile (MAR)</b>	RR Ap. S27 (Ap. 27 Aer2)
4700 - 4750	<b>AERONAUTICAL MOBILE (OR)</b>	<b>Aeronautical mobile (MAOR)</b>	RR Ap. S26 (Ap. 26) Government

FREQUENCY BAND (KHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
4750 - 4850	<b>FIXED</b> <b>AERONAUTICAL MOBILE (OR)</b> LAND MOBILE BROADCASTING S5.113	<b>Fixed (FIX)</b> <b>Aeronautical mobile (MAOR)</b>	Government
4850 - 4995	<b>FIXED</b> <b>LAND MOBILE</b> BROADCASTING S5.113	<b>Fixed (FIX)</b> <b>Land mobile (MT)</b>	Government
4995 - 5003	STANDARD FREQUENCY AND TIME SIGNAL (5000 kHz)		
5003 - 5005	STANDARD FREQUENCY AND TIME SIGNAL Space research		
5005 - 5060	<b>FIXED</b> BROADCASTING S5.113	<b>Fixed (FIX)</b>	Government
5060 - 5450	<b>FIXED</b> Mobile except aeronautical mobile	<b>Fixed (FIX)</b>	Government
5250 - 5450	<b>FIXED</b> MOBILE except aeronautical mobile	<b>Fixed (FIX)</b>	Government
5450 - 5480	<b>FIXED</b> <b>AERONAUTICAL MOBILE (OR)</b> LAND MOBILE	<b>Fixed (FIX)</b> <b>Aeronautical mobile (MAOR)</b>	RR Ap. S26 (Ap. 26) Government
5480 - 5680	<b>AERONAUTICAL MOBILE (R)</b> S5.111, S5.115	<b>Aeronautical mobile (MAR)</b>	RR Ap. S27 (Ap. 27 Aer2)
5680 - 5730	<b>AERONAUTICAL MOBILE (OR)</b> S5.111, S5.115	<b>Aeronautical mobile (MAOR)</b>	RR Ap. S26 (Ap. 26) Government

FREQUENCY BAND (KHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
5730 - 5900	<b>FIXED</b>  LAND MOBILE	<b>Fixed (FIX)</b>	Government
5900 - 5950	BROADCASTING S5.134  S5.136		Extension band for HFBC, to be effective up from 1.4.2007
5950 - 6200	<b>BROADCASTING</b>	<b>Sound broadcasting (RAD)</b>	RR Art S12A (Art. 17)
6200 - 6525	<b>MARITIME MOBILE</b> S5.109, S5.110, S5.130, S5.132          S5.137	<b>Maritime mobile (MM)</b>	RR Ap. S17 (Ap. 16): (6200-6233 kHz; 6501-6525 kHz)  RR Ap. S25 (Ap. 25): (6501-6525 kHz)  RR Ap. S17 (Ap. 31)  RR Ap. S17 (Ap. 32): (6313,75-6330,75 kHz)  RR Ap. S17 (Ap. 33): (6300,25-6311,75 kHz)  RR Ap. S17 (Ap. 35): (6284,75-6300,25 kHz)  RR Ap. S13 (RR 3010): (6215 kHz; 6268 kHz and 6312 kHz)  Government (6233-6261 kHz; 6332,5-6501 kHz)
6525 - 6685	<b>AERONAUTICAL MOBILE (R)</b>	<b>Aeronautical mobile (MAR)</b>	RR Ap. S27 (Ap. 27 Aer2)
6685 - 6765	<b>AERONAUTICAL MOBILE (OR)</b>	<b>Aeronautical mobile (MAOR)</b>	RR Ap. S26 (Ap. 26)  Government
6765 - 7000	<b>FIXED</b>  Land mobile          S5.138	<b>Fixed (FIX)</b>  Land mobile (MT)  <b>ISM – Industrial, scientific and medical applications (6765-6795 kHz)</b>  <b>SRD – Non-specific short range devices (6765-6795 kHz)</b>	CEPT/ERC/REC 70-03 Annex 1 National regulation no. 859/94 of 23/9  Government (6795-7000 kHz)
7000 - 7100	<b>AMATEUR</b>  <b>AMATEUR-SATELLITE</b>	<b>Amateur (AM)</b>  <b>Amateur-satellite (AM-S)</b>	Amateur national regulations CEPT Rec T/R 61-01



FREQUENCY BAND (KHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
9500 - 9900	<b>BROADCASTING</b> S5.147	<b>Sound broadcasting (RAD)</b>	RR Art S12A (Art. 17): (9500-9775 kHz)
9900 - 9995	<b>FIXED</b>	<b>Fixed (FIX)</b>	Government
9995 - 10003	STANDARD FREQUENCY AND TIME SIGNAL (10000 kHz) S5.111		
10003 - 10005	STANDARD FREQUENCY AND TIME SIGNAL Space research S5.111		
10005 - 10100	<b>AERONAUTICAL MOBILE (R)</b> S5.111	<b>Aeronautical mobile (MAR)</b>	RR Ap. S27 (Ap. 27 Aer2)
10100 - 10150	<b>FIXED</b> <b>Amateur</b>	<b>Fixed (FIX)</b> <b>Amateur (AM)</b>	Amateur national regulations CEPT Rec T/R 61-01
10150 - 11175	<b>FIXED</b> Mobile except aeronautical mobile (R)	<b>Fixed (FIX)</b>	Government
11175 - 11275	<b>AERONAUTICAL MOBILE (OR)</b>	<b>Aeronautical mobile (MAOR)</b>	RR Ap. S26 (Ap. 26) Government
11275 - 11400	<b>AERONAUTICAL MOBILE (R)</b>	<b>Aeronautical mobile (MAR)</b>	RR Ap. S27 (Ap. 27 Aer2)
11400 - 11600	<b>FIXED</b>	<b>Fixed (FIX)</b>	Government
11600 - 11650	BROADCASTING S5.134 S5.146		Extension band for HFBC, to be effective up from 1.4.2007
11650 - 12050	<b>BROADCASTING</b> S5.147	<b>Sound broadcasting (RAD))</b>	RR Art S12A (Art. 17): (11700-11975 kHz)
12050 - 12100	BROADCASTING S5.134 S5.146		Extension band for HFBC, to be effective up from 1.4.2007



FREQUENCY BAND (KHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
12100 - 12230	<b>FIXED</b>	<b>Fixed (FIX)</b>	Government
12230 - 13200	<b>MARITIME MOBILE</b> S5.109 S5.110, S5.132, S5.145	<b>Maritime mobile (MM)</b>	RR Ap. S17 (Ap. 16): (12230-12368 kHz; 13077-13200 kHz)  RR Ap. S25 (Ap. 25): (13077-13200 kHz)  RR Ap. S17 (Ap. 31)  RR Ap. S17 (Ap. 32): (12476,75-12549,75 kHz; 12578,75-12656,75 kHz)  RR Ap. S17 (Ap. 33): (12559,75-12576,75kHz)  RR Ap. S17 (Ap. 35): (12421,75-12476,75 kHz)  RR Ap. S13 (3010): (12290 kHz; 12520 kHz and 12577 kHz)  Government (12368-12420 kHz; 12658,5-13077 kHz)
13200 - 13260	<b>AERONAUTICAL MOBILE (OR)</b>	<b>Aeronautical mobile (MAOR)</b>	RR Ap. S26 (Ap. 26)  Government
13260 - 13360	<b>AERONAUTICAL MOBILE (R)</b>	<b>Aeronautical mobile (MAR)</b>	RR Ap. S27 (Ap. 27 Aer2)
13360 - 13410	<b>FIXED</b>  RADIO ASTRONOMY  S5.149*	<b>Fixed (FIX)</b>	
13410 - 13570	<b>FIXED</b>  <b>Mobile except aeronautical mobile (R)</b>          S5.150	<b>Fixed (FIX)</b>  <b>Mobile (MOV)</b>  <b>ISM – Industrial, scientific and medical applications (13553-13567 kHz)</b>  <b>SRD - Non-specific short range devices (13553-13567 kHz)</b>	CEPT/ERC/REC 70-03 Annex 1 National regulation no. 859/94 of 23/9  Government (13410-13450 kHz; 13495-13515 kHz)

FREQUENCY BAND (KHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
13570 - 13600	BROADCASTING S5.134, S5.135 S5.151		Extension band for HFBC, to be effective up from 1.4.2007.
13600 - 13800	<b>BROADCASTING</b> S5.148	<b>Sound broadcasting (RAD)</b>	
13800 - 13870	BROADCASTING S5.134, S5.135 S5.151		Extension band for HFBC, to be effective up from 1.4.2007
13870 - 14000	<b>FIXED</b> Mobile except aeronautical mobile (R)	<b>Fixed (FIX)</b>	Government (13870-13914 kHz)
14000 - 14250	<b>AMATEUR</b> <b>AMATEUR-SATELLITE</b>	<b>Amateur (AM)</b> <b>Amateur-satellite (AM-S)</b>	Amateur national regulations CEPT Rec T/R 61-01
14250 - 14350	<b>AMATEUR</b>	<b>Amateur (AM)</b>	Amateur national regulations CEPT Rec T/R 61-01
14350 - 14990	<b>FIXED</b> Mobile except aeronautical mobile (R)	<b>Fixed (FIX)</b>	Government (14604-14670 kHz)
14990 - 15005	STANDARD FREQUENCY AND TIME SIGNAL (15000 kHz) S5.111		
15005 - 15010	STANDARD FREQUENCY AND TIME SIGNAL Space research		
15010 - 15100	<b>AERONAUTICAL MOBILE (OR)</b>	<b>Aeronautical mobile (MAOR)</b>	RR Ap. S26 (Ap. 26) Government
15100 - 15600	<b>BROADCASTING</b>  S5.148	<b>Sound broadcasting (RAD)</b>	RR Art. S12A (Art. 17) : (15100-15400 kHz)  RR S5.148 (531) : (15450-15600 kHz)

FREQUENCY BAND (KHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
15600 - 15800	BROADCASTING S5.134, S5.135 S5.146		Extension band for HFBC, to be effective up from 1.4.2007
15800 - 16360	<b>FIXED</b>	<b>Fixed (FIX)</b>	Government (16180-16231 kHz)
16360 - 17410	<b>MARITIME MOBILE</b> S5.109, S5.110, S5.132, S5.145	<b>Maritime mobile (MM)</b>	RR Ap. S17 (Ap. 16) : (16360-16549 kHz; 17242-17410 kHz)  RR Ap. S25 (Ap. 25) : (17242-17410 kHz)  RR Ap. S17 (Ap.31)  RR Ap. S17 (Ap. 32) : (16683,25-16733,75kHz; 16806,25-16902,75 kHz)  RR Ap. S17 (Ap. 33) : (16784,75-16804,25kHz)  RR Ap. S17 (Ap.35) : (16618,75-16683,25 kHz)  RR Ap. S13 (RR 3010) : (16420 kHz; 16695 kHz and 16804,5 kHz)  Government (16549-16617 kHz)
17410 - 17480	<b>FIXED</b>	<b>Fixed (FIX)</b>	Government (17410-17451 kHz)
17480 - 17550	BROADCASTING S5.134, S5.135 S5.146		Extension band for HFBC, to be effective up from 1.4.2007
17550 - 17900	<b>BROADCASTING</b> S5.148	<b>Sound broadcasting (RAD)</b>	RR Art. S12A (Art. 17) : (17700-17900 kHz)
17900 - 17970	<b>AERONAUTICAL MOBILE (R)</b>	<b>Aeronautical mobile (MAR)</b>	RR Ap. S27 (Ap. 27 Aer2)
17970 - 18030	<b>AERONAUTICAL MOBILE (OR)</b>	<b>Aeronautical mobile (MAOR)</b>	RR Ap. S26 (Ap. 26)  Government
18030 - 18052	<b>FIXED</b>	<b>Fixed (FIX)</b>	
18052 - 18068	FIXED Space research		

FREQUENCY BAND (KHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
18068 - 18168	<b>AMATEUR</b>  <b>AMATEUR-SATELLITE</b>	<b>Amateur (AM)</b>  <b>Amateur-satellite (AM-S)</b>	Amateur national regulations CEPT Rec T/R 61-01
18168 - 18780	<b>FIXED</b>  Mobile except aeronautical mobile	<b>Fixed (FIX)</b>	Government (18249-18373 kHz)
18780 - 18900	MARITIME MOBILE		RR Ap. S17 (Ap. 16) : (18780-18846 kHz)  RR Ap. S17 (Ap.31)  RR Ap. S17 (Ap. 32) : (18870-18892,75kHz)  RR Ap. S17 (Ap. 33) : (18892,75-18898,25 kHz)  Government (18846-18870 kHz)
18900 - 19020	BROADCASTING S5.134, S5.135  S5.146		Extension band for HFBC, to be effective up from 1.4.2007
19020 - 19680	<b>FIXED</b>	<b>Fixed (FIX)</b>	Government (19020-19120 kHz)
19680 - 19800	<b>MARITIME MOBILE</b> S5.132	<b>Maritime mobile (MM)</b>	RR Ap. S17 (Ap. 16) : (19755-19800 kHz)  RR Ap. S17 (Ap. 25) : (19755-19800kHz)  RR Ap. S17 (Ap.31)  RR Ap. S17 (Ap. 32) : (19680,25-19703,25 kHz)  Government (19705-19755kHz)
19800 - 19990	<b>FIXED</b>	<b>Fixed (FIX)</b>	
19990 - 19995	STANDARD FREQUENCY AND TIME SIGNAL  Space research  S5.111		

FREQUENCY BAND (KHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
19995 - 20010	STANDARD FREQUENCY AND TIME SIGNAL (20000 kHz)  S5.111		
20010 - 21000	<b>FIXED</b>  <b>Mobile</b>	<b>Fixed (FIX)</b>  <b>Mobile (MOV)</b>	Government (20442-20680 kHz)
21000 - 21450	<b>AMATEUR</b>  <b>AMATEUR-SATELLITE</b>	<b>Amateur (AM)</b>  <b>Amateur-satellite (AM-S)</b>	Amateur national regulations CEPT Rec T/R 61-01
21450 - 21850	<b>BROADCASTING</b>  S5.148	<b>Sound broadcasting (RAD)</b>	RR Art. S12A (Art. 17) : (21450-21750 kHz)  RR S5.148 (531) : (21750-21850 kHz)
21850 - 21870	<b>FIXED</b>	<b>Fixed (FIX)</b>	
21870 - 21924	FIXED S5.155B		
21924 - 22000	AERONAUTICAL MOBILE (R)		RR Ap. S27 (Ap. 27 Aer2)
22000 - 22855	<b>MARITIME MOBILE</b> S5.132	<b>Maritime mobile (MM)</b>	RR Ap. S17 (Ap. 16) : (22000-22180 kHz; 22696-22855 kHz)  RR Ap. S25 (Ap. 25) : (22696-22855 kHz)  RR Ap. S17 (Ap.31)  RR Ap. S17 (Ap. 32) : (22284,25-22351,75 kHz; 22375,75-22443,75kHz)  RR Ap. S17 (Ap. 33) : (22351,75-22374,25 kHz)  RR Ap. S17 (Ap. 34) : (22279,25-22284,25 kHz)  RR Ap. S17 (Ap.35) : (22241,75-22279,25 kHz)  Government (22180-22240 kHz; 22445,5-22696 kHz)
22855 - 23000	<b>FIXED</b>	<b>Fixed (FIX)</b>	Government (22900-23000 kHz)

FREQUENCY BAND (KHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
23000 - 23200	<b>FIXED</b>  Mobile except aeronautical mobile (R)	<b>Fixed (FIX)</b>  Mobile (MOV)	
23200 - 23350	FIXED S5.156A  <b>AERONAUTICAL MOBILE (OR)</b>	<b>Aeronautical mobile (MAOR)</b>	Government
23350 - 24000	<b>FIXED</b>  MOBILE except aeronautical mobile S5.157	<b>Fixed (FIX)</b>	
24000 - 24890	<b>FIXED</b>  LAND MOBILE	<b>Fixed (FIX)</b>	Government (24125-24325 kHz)
24890 - 24990	<b>AMATEUR</b>  <b>AMATEUR-SATELLITE</b>	<b>Amateur (AM)</b>  <b>Amateur-satellite (AM-S)</b>	Amateur national regulations CEPT Rec T/R 61-01
24990 - 25005	STANDARD FREQUENCY AND TIME SIGNAL (25000 kHz)		
25005 - 25010	STANDARD FREQUENCY AND TIME SIGNAL  Space research		
25010 - 25070	<b>FIXED</b>  MOBILE except aeronautical mobile		
25070 - 25210	<b>MARITIME MOBILE</b>	<b>Maritime mobile (MM)</b>	RR Ap. S17 (Ap. 16) : (25070-25121 kHz; 26145-26175 kHz)  RR Ap. S25 (Ap. 25) : (26145-26175 kHz)  RR Ap. S17 (Ap.31)  RR Ap. S17 (Ap. 32) : (25172,75-25192,75 kHz; 26100,25-26120,75 kHz)  RR Ap. S17 (Ap. 33) : (25192,75-25208,25 kHz)  RR Ap. S17 (Ap. 34) : (25171,25-25172,75 kHz)  RR Ap. S17 (Ap.35) : (25161,25-25171,25 kHz)  Government (25121-25161,25 kHz)



FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
27,5 - 28	METEOROLOGICAL AIDS  FIXED  <b>MOBILE</b>	<b>CT0 – Cordless telephones (27,550-27,825 MHz) (MOV)</b>	Government (27,85-28MHz)
28 - 29,7	<b>AMATEUR</b>  <b>AMATEUR-SATELLITE</b>	<b>Amateur (AM)</b>  <b>Amateur-satellite (AM-S)</b>	Amateur national regulations CEPT Rec T/R 61-01
29,7 - 30,005	FIXED  <b>MOBILE</b>	<b>SMT – Private mobile radio (MOV)</b>  <b>SRD – Low power narrowband telecommand, telemetry, telealarm and data transmission equipment for use outside the ISM bands (29,980 MHz; 29,990 MHz; 30,000 MHz)</b>	40 MHz plan  National regulation no. 859/94 of 23/9
30,005 - 30,01	SPACE OPERATION (satellite identification)  FIXED  <b>MOBILE</b>  SPACE RESEARCH	<b>SMT – Private mobile radio (MOV)</b>  <b>SRD – Low power narrowband telecommand, telemetry, telealarm and data transmission equipment for use outside the ISM bands (30,010 MHz)</b>	40 MHz plan  National regulation no. 859/94 of 23/9
30,01 - 37,5	FIXED  <b>MOBILE</b>	<b>SMT – Private mobile radio (MOV)</b>  <b>CT0 – Cordless telephones (37-37,275 MHz) (MOV)</b>  <b>SRD – Model control (35,005-35,205 MHz)</b>  <b>SRD – Radio microphones (34,41-34,59 MHz; 34,66-34,84 MHz)</b>	40 MHz plan  CEPT/ERC/REC 70-03 Annex 8 National regulation no. 859/94 of 23/9  National regulation no. 859/94 of 23/9  Government (30,0375-33,0875 MHz; 35,8625-36,9625 MHz; 37,3125-37, 5 MHz)



FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
37,5 - 38,25	FIXED  <b>MOBILE</b>  Radio astronomy  S5.149*	<b>SMT – Private mobile radio (MOV)</b>	40 MHz plan  Government (37,5-38,25 MHz)
38,25 - 39,986	FIXED  <b>MOBILE</b>	<b>SMT – Private mobile radio (MOV)</b>	40 MHz plan  Government (38,25-39,7625 MHz)
39,986 - 40,02	FIXED  <b>MOBILE</b>  Space research	<b>SMT – Private mobile radio (MOV)</b>	40 MHz plan
40,02 - 40,98	FIXED  <b>MOBILE</b>          S5.150	<b>SMT – Private mobile radio (MOV)</b>  <b>SCPP – Private radio paging (MOV) (40,680 MHz)</b>  <b>ISM – Industrial, scientific and medical applications (40,66-40,7 MHz)</b>  <b>SRD – Non-specific short range devices (40,66-40,7 MHz); Model control (40,665 MHz; 40,695 MHz)</b>	40 MHz plan  On-site paging     CEPT/ERC/REC 70-03 Annex 1, Annex 8 National regulation no. 859/94 of 23/9
40,98 - 41,015	FIXED  <b>MOBILE</b>  SPACE RESEARCH	<b>SMT – Private mobile radio (MOV)</b>	Government
41,015 - 44	FIXED  <b>MOBILE</b>	<b>SMT – Private mobile radio (MOV)</b>	Government
44 - 47	FIXED  <b>MOBILE</b>  Radiolocation (S5.162A)*	<b>SMT – Private mobile radio (MOV)</b>	Government

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
47 - 68	<b>BROADCASTING</b>  Radiolocation (S5.162A)*	<b>Analogue television broadcasting (RAD)</b>	Band I (47-68 MHz) (channels 2 to 4) ST-61  Government (47,25-49,5 MHz; 50,5-51 MHz; 54-68 MHz)
68 - 74,8	FIXED  <b>MOBILE</b> except aeronautical mobile  S5.149*	<b>SMT – Private mobile radio (MOV)</b>	80 MHz plan  Government (68,8875-69,8625 MHz; 73,3-74,1 MHz)
74,8 - 75,2	<b>AERONAUTICAL RADIONAVIGATION</b>  S5.180	<b>Aeronautical radiobeacons – ILS / glide path markers (RVA)</b>	ICAO – (Annex 10)
75,2 - 87,5	FIXED  <b>MOBILE</b> except aeronautical mobile	<b>SMT – Private mobile radio (MOV)</b>	80 MHz plan  Government (75,2125-77,65 MHz; 79,4125-80,3875 MHz; 83,8250-84,6250 MHz; 85,7375-87,4875MHz)
87,5 - 108	<b>BROADCASTING</b>	<b>Sound broadcasting (RAD)</b>	Band II – FM GE-84
108 - 117,975	<b>AERONAUTICAL RADIONAVIGATION</b>	<b>Aeronautical radiobeacons – VOR and ILS localizers (RVA)</b>	ICAO – (Annex 10)
117,975 - 137	<b>AERONAUTICAL MOBILE (R)</b>  S5.111, S5.198, S5.199, S5.200, S5.203	<b>Aeronautical mobile (MAR)</b>	ICAO – (Annex 10)
137 - 137,025	SPACE OPERATION (space-to-Earth)  METEOROLOGICAL-SATELLITE (space-to-Earth)  MOBILE-SATELLITE (space-to-Earth) S5.208A, S5.209  SPACE RESEARCH (space-to-Earth)  Fixed  Mobile except aeronautical mobile (R)  S5.208		

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
137,025 - 137,175	SPACE OPERATION (space-to-Earth)  <b>METEOROLOGICAL-SATELLITE (space-to-Earth)</b>  SPACE RESEARCH (space-to-Earth)  Fixed  Mobile-satellite (space-to-Earth) S5.208A, S5.209  Mobile except aeronautical mobile (R)  S5.208	<b>METEOSAT – Low resolution picture transmissions – LRPT (MET-S)</b>	
137,175 - 137,825	SPACE OPERATION (space-to-Earth)  <b>METEOROLOGICAL-SATELLITE (space-to-Earth) LRPT (MET-S)</b>  MOBILE-SATELLITE (space-to-Earth) S5.208A, S5.209  SPACE RESEARCH (space-to-Earth)  Fixed  Mobile except aeronautical mobile (R)  S5.208	<b>METEOSAT – Low resolution picture transmissions –  Automatic picture transmission – APT (MET-S) (137,5-137,62 MHz)</b>	METEOSAT will replace APT systems
137,825 - 138	SPACE OPERATION (space-to-Earth)  <b>METEOROLOGICAL-SATELLITE (space-to-Earth)</b>  SPACE RESEARCH (space-to-Earth)  Fixed  Mobile-satellite (space-to-Earth) S5.208A, S5.209  Mobile except aeronautical mobile (R)  S5.208	<b>METEOSAT – Low resolution picture transmissions – LRPT (MET-S)</b>	
138 - 143,6	<b>AERONAUTICAL MOBILE (OR)</b>	<b>Aeronautical mobile (OR) (MAOR)</b>	Government

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
143,6 - 143,65	<b>AERONAUTICAL MOBILE (OR)</b>  SPACE RESEARCH (space-to-Earth)	<b>Aeronautical mobile (OR) (MAOR)</b>	Government
143,65 - 144	<b>AERONAUTICAL MOBILE (OR)</b>	<b>Aeronautical mobile (OR) (MAOR)</b>	Government
144 - 146	<b>AMATEUR</b>  <b>AMATEUR-SATELLITE</b>	<b>Amateur (AM) (144-145,8 MHz)</b>  <b>Amateur-satellite (AM-S) (145,8-146 MHz)</b>  <b>POSAT-1 (AM-S) (145,925 MHz;145,975 MHz)</b>	Amateur national regulations CEPT Rec T/R 61-01
146 - 148	<b>FIXED</b>  <b>MOBILE except aeronautical mobile (R)</b>	<b>Fixed (FIX)</b>  <b>Mobile (MOV)</b>	Government (146,0125-148 MHz)
148 - 149,9	<b>FIXED</b>  <b>MOBILE except aeronautical mobile (R)</b>  MOBILE-SATELLITE (Earth-to-space) S5.209  <b>SPACE OPERATION (Earth-to-space) S5.218</b>  S5.219, (S5.221*)	<b>SMT- Private mobile radio (MOV)</b>     <b>POSAT-1 (148,285 MHz;148,585 MHz)</b>	160 MHz plan     Low Earth orbiting satellite, under RR S4.4 (RR 342)  Government (148-148,4 MHz; 149,0125-149,8875 MHz)
149,9 - 150,05	MOBILE-SATELLITE (Earth-to-space) S5.209, S5.224A  <b>RADIONAVIGATION-SATELLITE S5.224B</b>  S5.220, S5.222, S5.223	<b>TRANSIT – Radionavigation- satellite system (RV-S) (150 MHz)</b>	To be cancelled
150,05 - 153	<b>FIXED</b>  <b>MOBILE except aeronautical mobile</b>  RADIO ASTRONOMY     S5.149*	<b>SMT – Private mobile radio (MOV)</b>     <b>SRD – Low power narrowband telecommand, telemetry, telealarm and data transmission equipment for use outside the ISM bands (150,9375 MHz; 150,9500 MHz)</b>	160 MHz plan     National regulation no. 859/94 of 23/9  Government (150,5375-150,8875; 151,2-151,9875 MHz)

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
153 - 154	FIXED  <b>MOBILE</b> except aeronautical mobile (R)  Meteorological aids	<b>SMT – Private mobile radio (MOV)</b>	160 MHz plan  Government (153,6125-154 MHz)
154 - 156,7625	FIXED  <b>MOBILE</b> except aeronautical mobile (R)          S5.226, S5.227	<b>SMT – Private mobile radio (MOV)</b>  <b>SMM – Maritime mobile networks (156-156,7625 MHz) (MOV)</b>  <b>Coast-to-ship communications for differential GPS (MOV); ship station: 156,075 MHz; coast station: 160,675 MHz</b>  <b>SRD – Low power narrowband telecommand, telemetry, telealarm and data transmission equipment for use outside the ISM bands (155,5375 MHz; 155,5500 MHz)</b>	160 MHz plan  RR Ap. S18 (Ap. 18) RR Ap. S13 (3010): 156,525 MHz  RR Ap. S18 (Ap. 18) – channel 61  National regulation no. 859/94 of 23/9  Government (154-154,65 MHz; 155,1375-155,4875 MHz; 155,8-155,9875 MHz)
156,7625 - 156,8375	<b>MARITIME MOBILE (distress and calling)</b>  S5.111, S5.226	<b>Maritime mobile (MM)</b>	RR Ap. S18 (Ap. 18) RR Ap. S13 (3010): 156,8 MHz
156,8375 - 174	FIXED  <b>MOBILE</b> except aeronautical mobile (R)          S5.226	<b>SMT – Private mobile radio (MOV)</b>  <b>SCPP – Private radio paging (MOV) (169,175 MHz)</b>  <b>SCP – Public national radio paging (MOV) (164,925 MHz; 167,200 MHz; 167,325 MHz; 167,375 MHz)</b>  ERMES – Pan-european paging system (MOV) (Frequency band: 169,4-169,8 MHz; 1st phase: 169,425 MHz; 169,475 MHz; 169,650 MHz; 169,750 MHz)  <b>SMM – Maritime mobile networks (MOV) (156,8375-158,0125 MHz) (160,6125-162,6125)</b>	160 MHz plan  On-site paging  National paging  ERC/DEC/(94)02 Directive 90/544/EEC CEPT Rec T/R 25-07  RR Ap. S18 (Ap. 18) and national planification

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
174 - 223	<b>BROADCASTING</b>	Analogue television broadcasting (RAD)  T-DAB – Sound broadcasting (RAD) (219-230 MHz)	Band III (174-216 MHz) (channels 5 to 10) ST-61  Wiesbaden Agreement 1995 CEPT/ERC Rec T/R 52-02
223 - 230	<b>BROADCASTING</b>  Fixed  Mobile	<b>T-DAB: Sound broadcasting (RAD) (219-230 MHz)</b>	Wiesbaden Agreement 1995 CEPT/ERC Rec T/R 52-02  Government (225-230 MHz)
230 - 235	FIXED  MOBILE		Government
235 - 267	FIXED  MOBILE  S5.111, S5.199, S5.254, S5.256		Government
267 - 272	FIXED  MOBILE  Space operation (space-to-Earth)  S5.254, S5.257		Government
272 - 273	SPACE OPERATION (space-to-Earth)  FIXED  MOBILE  S5.254		Government
273 - 312	FIXED  MOBILE  S5.254		Government
312 - 315	FIXED  MOBILE  Mobile-satellite (Earth-to-space) S5.254, S5.255		Government

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
315 - 322	FIXED  MOBILE  S5.254		Government
322 - 328,6	FIXED  MOBILE  RADIO ASTRONOMY  S5.149*		Government
328,6 - 335,4	<b>AERONAUTICAL RADIONAVIGATION</b>  S5.258	<b>Aeronautical radiobeacons – ILS / glide path markers (RVA)</b>	ICAO – (Annex 10)
335,4 - 387	FIXED  MOBILE   S5.254	TETRA emergency (380-383 MHz)	ERC/DEC(96)01 Sub-band 383-385 MHz is reserved for future use by TETRA emergency systems  Government
387 - 390	FIXED  MOBILE  Mobile-satellite (space-to-Earth) S5.208A, S5.254, S5.255		Government
390 - 399,9	FIXED  MOBILE   S5.254	TETRA emergency (390-393 MHz)	ERC/DEC(96)01 Sub-band 393-395 MHz is reserved for future use by TETRA emergency systems  Government
399,9 - 400,05	MOBILE-SATELLITE (Earth-to-space) S5.209, S5.224A  <b>RADIONAVIGATION-SATELLITE</b> S5.222, S5.224B, S5.260  S5.220	<b>TRANSIT – Radionavigation- satellite system (RV-S) (399,968 MHz)</b>	To be cancelled
400,05 - 400,15	STANDARD FREQUENCY ANT TIME SIGNAL-SATELLITE (400,1 MHz)  S5.261		

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
400,15 - 401	<p>METEOROLOGICAL AIDS</p> <p>METEOROLOGICAL-SATELLITE (space-to-Earth)</p> <p>MOBILE-SATELLITE (space-to-Earth) S5.208A, S5.209</p> <p>SPACE RESEARCH (space-to-Earth) S5.263</p> <p>Space operation (space-to-Earth) S5.264</p>		
401 - 402	<p>METEOROLOGICAL AIDS</p> <p>SPACE OPERATION (space-to-Earth)</p> <p><b>EARTH EXPLORATION-SATELLITE (Earth-to-space)</b></p> <p><b>METEOROLOGICAL-SATELLITE (Earth-to-space)</b></p> <p>Fixed</p> <p>Mobile except aeronautical mobile</p>	<p><b>DORIS system (401,25 MHz 350 Hz)</b></p> <p><b>DCP – Data collecting platforms for meteorological service (MET-S) (401,9 MHz 200 kHz)</b></p>	
402 - 403	<p>METEOROLOGICAL AIDS</p> <p>EARTH EXPLORATION-SATELLITE (Earth-to-space)</p> <p><b>METEOROLOGICAL-SATELLITE (Earth-to-space)</b></p> <p>Fixed</p> <p>Mobile except aeronautical mobile</p>	<p><b>DCP – Data collecting platforms for meteorological service (MET-S) (401,9 MHz 200 kHz)</b></p>	
403 - 406	<p><b>METEOROLOGICAL AIDS</b></p> <p>Fixed</p> <p>Mobile except aeronautical mobile</p>	<b>Radiosondes (METAX)</b>	
406 - 406,1	<p><b>MOBILE-SATELLITE (Earth-to-space)</b></p> <p>S5.266, S5.267</p>	<b>Low power EPIRB COSPAS – SARSAT (MV-S)</b>	RR Ap. S13 (RR 3010)



FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
406,1 - 410	<b>FIXED</b>  MOBILE except aeronautical mobile  RADIO ASTRONOMY  S5.149*	<b>Single channel (FIX)</b>	Single channel links plan Planned for unidirectional links  Government (408,7875-409,9875 MHz)
410 - 420	<b>FIXED</b>  <b>MOBILE except aeronautical mobile</b>  SPACE RESEARCH (space-to-space) S5.268	<b>Single channel (FIX)</b>  <b>TETRA civil</b>	Single channel links plan Planned for bidirectional links  ERC/DEC/(96)04 Some channels within the sub-band 413-417,6 MHz  Government (417,5875-418,5875 MHz)
420 - 430	<b>FIXED</b>  <b>MOBILE except aeronautical mobile</b>  Radiolocation	<b>Single channel (FIX)</b>  <b>TETRA civil</b>  <b>POSAT-1</b> (429,450 MHz; 429,520 MHz; 429,880 MHz; 429,950 MHz)	Single channel links plan  ERC/DEC/(96)04 Some channels within the sub-band 423-427,6 MHz  Low Earth orbiting satellite, under RR S4.4 (RR 342)  Government (427,5875-428,5875MHz)
430 - 440	<b>AMATEUR</b>  <b>Amateur-satellite</b> S5.282  RADIOLOCATION    S5.138, (S5.280)	<b>Amateur (AM)</b>  <b>Amateur-satellite (AM-S)</b> (435-438 MHz)  <b>ISM – Industrial, scientific and medical applications</b> (433,05-434,79 MHz)  <b>SRD – Non-specific short range devices (433,05-434,79 MHz)</b>	Amateur national regulations CEPT Rec T/R 61-01  The amateur-satellite uses have a secondary allocation in the sub-band 435-438 MHz, under RR S5.282 (664)  CEPT/ERC/REC 70-03 Annex 1 National regulation no. 859/94 of 23/9
440 - 450	<b>FIXED</b>  <b>MOBILE except aeronautical mobile</b>  Radiolocation  S5.286	<b>SMT – Private mobile radio (MOV)</b>  <b>PMR446 (446-446,1 MHz)</b>	440-450 MHz plan  CEPT/ERC/DEC(98)25 National regulation no. 802/99 of 20/9

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
450 - 455	FIXED  <b>MOBILE</b>   S5.209, S5.286, S5.286A	<b>SMT – Private mobile radio (MOV)</b>  <b>SMRP – National trunking mobile system (MOV)</b> (frequency assignments in the sub-band 450,0125-451,3875 MHz)  TETRA civil	450 MHz plan  MPT 1327  ERC/DEC/(96)04 Some channels within the band 450-470 MHz
455 - 456	FIXED  <b>MOBILE</b>   S5.209, S5.286A	<b>SMT – Private mobile radio (MOV)</b>  TETRA civil	450 MHz plan  ERC/DEC/(96)04 Some channels within the band 450-470 MHz
456 - 459	FIXED  <b>MOBILE</b>   S5.287	<b>SMT – Private mobile radio (MOV)</b>  <b>On board communications (maritime)</b> (457,525 MHz; 457,5375 MHz; 457,550 MHz; 457,5625 MHz; 457,575 MHz) (MOV)  <b>SRD – Low power narrowband telecommand, telemetry, telealarm and data transmission equipment for use outside the ISM bands</b> (458,1125 MHz; 458,1250 MHz; 458,1370 MHz; 458,1500 MHz)  TETRA civil	450 MHz plan   National regulation no. 859/94 of 23/9  ERC/DEC/(96)04 Some channels within the band 450-470 MHz  Government (458,2125-459 MHz)
459 - 460	FIXED  <b>MOBILE</b>   S5.209, S5.286A	<b>SMT – Private mobile radio (MOV)</b>  <b>SCPP – Private radio paging (MOV)</b> (459,650 MHz)  TETRA civil	450 MHz plan  On-site paging  ERC/DEC/(96)04 Some channels within the band 450-470 MHz  Government (459-459,3625 MHz)

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
460 - 470	<p>FIXED</p> <p><b>MOBILE</b></p> <p>Meteorological-satellite (space-to-Earth)</p> <p>S5.287, S5.289</p>	<p><b>SMT – Private mobile radio (MOV)</b></p> <p><b>SMRP – National trunking mobile system (MOV)</b> (frequency assignments in the sub-band 460,0125 – 461,3875 MHz)</p> <p><b>SCPP – Private radio paging (MOV)</b> (468,1125 MHz; 468,1250 MHz; 469,275 MHz)</p> <p><b>ECAR – Equipment of coverage in a restricted area</b> (468,15 MHz; 468,1375 MHz)</p> <p><b>On board communications (maritime)</b> (467,525 MHz; 467,5375 MHz; 467,550 MHz; 467,5625 MHz; 467,575 MHz) (MOV)</p> <p>TETRA civil</p>	<p>450 MHz plan</p> <p>MPT 1327</p> <p>On-site paging</p> <p>ERC/DEC/(96)04 Some channels within the band 450-470 MHz</p> <p>Government (468,2125-469,2125 MHz; 469,3625-469,5875 MHz)</p>
470 - 790	<p><b>BROADCASTING</b></p> <p>Land mobile (S5.296)*</p> <p>S5.149*, S5.306, S5.311</p>	<p><b>Analogue television broadcasting (RAD)</b></p> <p>DVB-T – Digital television broadcasting (646-862 MHz) (RAD)</p>	<p>Bands IV (470-582 MHz) and V (582-790 MHz) (channels 21 to 60) ST-61</p> <p>Band V (some channels between 43 and 69)</p>
790 - 862	<p><b>FIXED</b></p> <p><b>BROADCASTING</b></p> <p>MOBILE except aeronautical mobile (S5.316)* S5.XXX*</p>	<p><b>STL – Studio transmitter link (FIX)</b> (838,75-852,25 MHz)</p> <p><b>Analogue television broadcasting (RAD)</b></p> <p>DVB-T – Digital television broadcasting (646-862 MHz) (RAD)</p> <p>IMT-2000 - International Mobile Telecommunications - 2000 (MOV)</p>	<p>To be completely abandoned until the end of 1999</p> <p>Band V (some channels between 43 and 69)</p> <p>Designated by WRC-2000 as additional bands (806-960 MHz)</p>
862 - 890	<p>FIXED</p> <p>MOBILE except aeronautical mobile S5.XXX*</p>	<p>GSM – Global system for mobile communications (MOV) (extension band: 880-890 MHz)</p> <p>IMT-2000 - International Mobile Telecommunications - 2000 (MOV)</p> <p><b>Sodal alarms (869,2-869,25 MHz)</b></p>	<p>CEPT Rec T/R 75-02 (862-960 MHz)</p> <p>ERC/DEC/(97)02</p> <p>Designated by WRC-2000 as additional bands (806-960 MHz)</p> <p>ERC/DEC/(97)06</p> <p>Government (873-878 MHz)</p>

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
890 - 942	<p>FIXED</p> <p><b>MOBILE</b> except aeronautical mobile S5.XXX*</p> <p>Radiolocation</p>	<p><b>GSM – Global system for mobile communications (MOV)</b> (frequency assignments in the sub-bands 890-914 MHz and 935-942 MHz); (extension band: 925-935 MHz)</p> <p><b>CT1 – Cordless telephones (MOV)</b> (914-915 MHz)</p> <p>IMT-2000 - International Mobile Telecommunications - 2000 (MOV)</p>	<p>CEPT Rec T/R 75-02 (862-960 MHz)</p> <p>ERC/DEC/(94)01 Directive 87/372/EEC CEPT Rec T/R 20-08 ERC/DEC/(97)02</p> <p>CEPT Rec T/R 24-03 (914-915 MHz; 959-960 MHz)</p> <p>Designated by WRC-2000 as additional bands (806-960 MHz)</p> <p>Government (918-923 MHz)</p>
942 - 960	<p>FIXED</p> <p><b>MOBILE</b> except aeronautical mobile S5.XXX*</p>	<p><b>GSM – Global system for mobile communications (MOV)</b> (frequency assignments in the sub-band 942-959 MHz)</p> <p><b>CT1 – Cordless telephones (MOV)</b> (959-960 MHz)</p> <p>IMT-2000 - International Mobile Telecommunications - 2000 (MOV)</p>	<p>CEPT Rec T/R 75-02 (862-960 MHz)</p> <p>ERC/DEC/(94)01 Directive 87/372/EEC CEPT Rec T/R 20-08</p> <p>CEPT Rec T/R 24-03 (914-915 MHz; 959-960 MHz)</p> <p>Designated by WRC-2000 as additional bands (806-960 MHz)</p>
960 - 1215	<p><b>AERONAUTICAL RADIONAVIGATION</b> S5.328</p> <p>S5.328A*</p>	<p><b>Flight, safety and navigation systems – DME, TACAN, SSR (RVA)</b></p>	
1215 - 1240	<p>EARTH EXPLORATION-SATELLITE (active)</p> <p>RADIOLOCATION</p> <p><b>RADIONAVIGATION-SATELLITE (space-to-Earth)</b> S5.329*, S5.329A*</p> <p>SPACE RESEARCH (active)</p> <p>RADIONAVIGATION (S5.331 (712))</p> <p>S5.332*</p>	<p><b>GPS – Global positioning system (RVA-S)</b></p>	

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
1240 - 1260	EARTH EXPLORATION-SATELLITE (active)  RADIOLOCATION  RADIONAVIGATION-SATELLITE (space-to-Earth) S5.329*, S5.329A*  SPACE RESEARCH (active)  <b>Amateur</b>  RADIONAVEGAÇÃO (S5.331)*  S5.332*	<b>Amateur (AM)</b>	Amateur national regulations CEPT Rec T/R 61-01
1260 - 1300	EARTH EXPLORATION-SATELLITE (active)  RADIOLOCATION  RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) S5.329*, S5.329A*  SPACE RESEARCH (active)  <b>Amateur</b>  <b>Amateur-satellite</b> S5.282  RADIONAVIGATION(S5.331)*  S5.335A*	<b>Amateur (AM)</b>  <b>Amateur-satellite (AM-S)</b>	Amateur national regulations CEPT Rec T/R 61-01
1300 - 1350	<b>AERONAUTICAL RADIONAVIGATION</b> S5.337  RADIOLOCATION  RADIONAVIGATION-SATELLITE (Earth-to-space)  S5.149*, S5.337A*	<b>Radars (RVA; RLC)</b>	
1350 - 1400	<b>FIXED</b>   MOBILE  RADIOLOCATION  S5.149, S5.339	<b>Fixed links (FIX)</b>	Planned use in accordance with CEPT Rec T/R 13-01 Annex A (1350-1375 MHz) and Annex B (1375-1400 MHz)
1400 - 1427	EARTH EXPLORATION-SATELLITE (passive)  RADIO ASTRONOMY  SPACE RESEARCH (passive)  S5.340*, S5.341	ALL EMISSIONS ARE PROHIBITED IN THIS BAND	

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
1427 - 1429	SPACE OPERATION (Earth-to-space)  FIXED  MOBILE except aeronautical mobile  S5.341		Band 1,5 GHz Planned use in accordance with CEPT Rec T/R 13-01 Annex B (1427-1452MHz)
1429 - 1452	FIXED      MOBILE except aeronautical mobile  S5.341	Fixed links (FIX)	Band 1,5 GHz Low capacity analogue and digital fixed links: 30 channels and 2 Mbit/s Recommendation ITU-R F 746-1 (1429-1525 MHz) (to be cancelled) Planned use in accordance with CEPT Rec T/R 13-01 Annex B (1427-1452MHz)
1452 - 1492	FIXED    MOBILE except aeronautical mobile  BROADCASTING S5.345, (S5.347)*   BROADCASTING-SATELLITE S5.345, (S5.347)*   S5.341	Fixed links (FIX)    T-DAB: Sound broadcasting (RAD)   S-DAB: Sound broadcasting- satellite (RAD-S)	and 1,5 GHz Low capacity analogue and digital fixed links: 30 channels and 2 Mbit/s Recommendation ITU-R F 746-1 (1429-1525 MHz) (to be cancelled)  CEPT/ERC Rec T/R 52-02 This band will be partially planned by a CEPT conference during the year 2001  Band designated by WARC-92 for digital broadcasting-satellite sound, from 2007 onwards Decided within CEPT to limit the S-DAB plan to a part of this band (its use in CEPT is dependent on the decisions to be taken for T-DAB in this band)

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
1492 - 1525	<b>FIXED</b>  MOBILE except aeronautical mobile S5.341	<b>Fixed links (FIX)</b>  <b>STL – Studio transmitter link (FIX) (1517-1525 MHz)</b>	Band 1,5 GHz Low capacity analogue and digital fixed links: 30 channels and 2 Mbit/s Recommendation ITU-R F 746-1 (1429-1525 MHz) (to be cancelled) Planned use in accordance with CEPT Rec T/R 13-01 Annex A (1492-1517 MHz)
1525 - 1530	SPACE OPERATION (space-to-Earth) <b>FIXED</b> <b>MOBILE-SATELLITE (space-to-Earth) S5.SSS*</b> Earth exploration-satellite Mobile except aeronautical mobile S5.341, S5.351, S5.354	<b>Maritime mobile-satellite (MM-S)</b>	
1530 - 1533	SPACE OPERATION (space-to-Earth) <b>MOBILE-SATELLITE (space-to-Earth) S5.353A*, S5.SSS*</b> Earth exploration-satellite Fixed Mobile except aeronautical mobile S5.341, S5.351, S5.354	<b>Maritime mobile-satellite (MM-S)</b> <b>Land mobile-satellite (MT-S)</b>	
1533 – 1535	SPACE OPERATION (space-to-Earth) <b>MOBILE-SATELLITE (space-to-Earth) S5.353A*, S5.SSS*</b> Earth exploration-satellite Fixed Mobile except aeronautical mobile S5.341, S5.351, S5.354	<b>Land mobile-satellite (MT-S)</b>	

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
1535 – 1544	<b>MOBILE-SATELLITE (space-to-Earth) S5.SSS*</b> S5.341, S5.351, S5.353A*, S5.354	Maritime mobile-satellite (MM-S)	
1544 - 1545	<b>MOBILE-SATELLITE (space-to-Earth)</b> S5.341, S5.354, S5.356	Search and rescue satellite systems, including GMDSS (MV-S)	Band limited to distress and rescue systems
1545 - 1559	MOBILE-SATELLITE (space-to-Earth) S5.SSS* S5.341, S5.351, S5.354, S5.357, S5.357A*		
1559 - 1610	AERONAUTICAL RADIONAVIGATION <b>RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space)</b> S5.329A* S5.341	<b>GPS – Global positioning system (RVA-S)</b>	
1610 - 1610,6	MOBILE-SATELLITE (Earth-to-space) S5.SSS* AERONAUTICAL RADIONAVIGATION S5.341, S5.364, S5.366, S5.367, S5.368, S5.371, S5.372	S-PCS (1610-1626,5 MHz): CDMA (1610-1621,35 MHz) and TDMA (1621,35-1626,5) systems	ERC/DEC/(97)03
1610,6 - 1613,8	MOBILE-SATELLITE (Earth-to-space) S5.SSS* RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION S5.149*, S5.341, S5.364, S5.366, S5.367, S5.368, S5.371, S5.372	S-PCS (1610-1626,5 MHz): CDMA (1610-1621,35 MHz) and TDMA (1621,35-1626,5) systems	ERC/DEC/(97)03  Important band for radio astronomy in Europe
1613,8 - 1626,5	MOBILE-SATELLITE (Earth-to-space) S5.SSS* AERONAUTICAL RADIONAVIGATION Mobile-satellite (space-to-Earth) S5.341, S5.364, S5.365, S5.366, S5.367, S5.368, S5.371, S5.372	S-PCS (1610-1626,5 MHz): CDMA (1610-1621,35 MHz) and TDMA (1621,35-1626,5) systems	ERC/DEC/(97)03
1626,5 – 1631,5	<b>MOBILE-SATELLITE (Earth-to-space) S5.SSS*</b> S5.341, S5.351, S5.353A*, S5.354	Maritime mobile-satellite (MM-S)	
1631,5 – 1634,5	<b>MOBILE-SATELLITE (Earth-to-space) S5.SSS*</b> S5.341, S5.351, S5.353A*, S5.354, S5.374	Maritime mobile-satellite (MM-S)	



FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
1634,5 – 1645,5	<b>MOBILE-SATELLITE (Earth-to-space) S5.SSS*</b>  S5.341, S5.351, S5.353A*, S5.354	<b>Mobile-satellite (MT-S)</b>	
1645,5 – 1646,5	<b>MOBILE-SATELLITE (Earth-to-space) S5.SSS*</b>  S5.341, S5.354, S5.375	<b>Search and rescue satellite systems, including GMDSS (MV-S)</b>	Band limited to distress and rescue systems
1646,5 – 1656,5	MOBILE-SATELLITE (Earth-to-space) S5.SSS*  S5.341, S5.351, S5.354, S5.357A*, S5.376		
1656,5 - 1660	MOBILE-SATELLITE (Earth-to-space) S5.SSS*  S5.341, S5.351, S5.354, S5.374		
1660 – 1660,5	MOBILE-SATELLITE (Earth-to-space) S5.SSS*  RADIO ASTRONOMY  S5.149*, S5.341, S5.351, S5.354, S5.376A		Important band for radio astronomy in Europe
1660,5 – 1668,4	RADIO ASTRONOMY  SPACE RESEARCH (passive)  Fixed  Mobile except aeronautical mobile  S5.149*, S5.341, S5.379A		Important band for radio astronomy in Europe
1668,4 - 1670	METEOROLOGICAL AIDS  FIXED  MOBILE except aeronautical mobile  RADIO ASTRONOMY  S5.149*, S5.341		Important band for radio astronomy in Europe

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
1670 - 1675	METEOROLOGICAL AIDS  FIXED  METEOROLOGICAL-SATELLITE (space-to-Earth)  MOBILE S5.380  S5.341	TFTS – Terrestrial flight telephone system (ground-air) (MOV); (1670-1675 MHz)	ERC/DEC/(92)01 CEPT/ERC Rec T/R 42-01
1675 - 1690	METEOROLOGICAL AIDS  FIXED  METEOROLOGICAL-SATELLITE (space-to-Earth)  MOBILE except aeronautical mobile  S5.341		Government
1690 - 1700	METEOROLOGICAL AIDS  <b>METEOROLOGICAL-SATELLITE (space-to-Earth)</b>  Fixed  Mobile except aeronautical mobile  S5.289, S5.341	<b>METEOSAT – Meteorological satellites for high resolution pictures transmission – HRPT (MET-S)</b>	
1700 - 1710	<b>FIXED</b>  METEOROLOGICAL-SATELLITE (space-to-Earth)  MOBILE except aeronautical mobile  S5.289, S5.341	<b>Fixed links (FIX)</b>	2 GHz band Recommendation ITU-R F 283-5 (1.7-1.9 GHz) (to be cancelled)

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
1710 - 1930	<p><b>FIXED</b></p> <p><b>MOBILE</b> S5.380, S5.AAA*, S5.BBB*</p> <p>S5.149*, S5.341, S5.385*, S5.388*</p>	<p><b>Fixed links (FIX)</b></p> <p><b>DCS 1800 – Digital communications system (1710-1785 MHz; 1805-1880 MHz)</b></p> <p>TFTS – Terrestrial flight telephone system (air-ground) (MOV); (1800-1805 MHz)</p> <p><b>DECT – Digital cellular telecommunications system (MOV); (1880-1900 MHz)</b></p> <p>IMT-2000 – International mobile telecommunication – 2000 (MOV)</p>	<p>2 GHz band Low and medium capacity analogue and digital fixed links: 30-960 channels and 2-34 Mbit/s Recommendations ITU-R F 283-5 (1.7-1.9 GHz and 1.9-2.1 GHz) and ITU-R F 382-7 (1.7-2.1 GHz and 1.9-2.3 GHz) (to be cancelled)</p> <p>ERC/DEC/(95)03 CEPT Rec T/R 22-07</p> <p>ERC/DEC/(92)01 CEPT/ERC Rec T/R 42-01</p> <p>ERC/DEC/(94)03 Directive 91/287/EEC CEPT Rec T/R 22-02</p> <p>Designated by WARC-1992 the bands 1885-2025 MHz and 2110-2200 MHz Designated by WRC-2000 as additional bands (1710-1885 MHz) ERC/DEC/(97)07 (Terrestrial component: 1900-1980 MHz; 2010-2025 MHz; 2110-2170 MHz) ERC/DEC(99)25 ERC/DEC(00)01</p>
1930 - 1980	<p><b>FIXED</b></p> <p><b>MOBILE</b> S5.BBB*</p> <p>S5.388*</p>	<p><b>Fixed links (FIX)</b></p> <p>IMT-2000 – International mobile telecommunication – 2000 (MOV)</p>	<p>2 GHz band Low and medium capacity analogue and digital fixed links: 30-960 channels and 2-34 Mbit/s Recommendations ITU-R F 283-5 (1.9-2.1 GHz) and ITU-R F 382-7 (1.7-2.1 GHz and 1.9-2.3 GHz) (to be cancelled)</p> <p>Designated by WARC-1992 the bands 1885-2025 MHz and 2110-2200 MHz ERC/DEC/(97)07 (Terrestrial component: 1900-1980 MHz; 2010-2025 MHz; 2110-2170 MHz) ERC/DEC(99)25 ERC/DEC(00)01</p>

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
1980 - 2010	<p><b>FIXED</b></p> <p><b>MOBILE</b></p> <p><b>MOBILE-SATELLITE</b> (Earth-to-space) S5.SSS* S5.388*, S5.389A</p>	<p><b>Fixed links (FIX)</b></p> <p>IMT-2000 – International mobile telecommunication – 2000 (MOV)</p> <p>S-PCS (1980-2010 MHz)</p>	<p>2 GHz band Low and medium capacity analogue and digital fixed links: 30-960 channels and 2-34 Mbit/s Recommendations ITU-R F 283-5 (1.9-2.1 GHz) and ITU-R F 382-7 (1.7-2.1 GHz and 1.9-2.3 GHz) (to be cancelled) ERC/DEC/(97)04</p> <p>Designated by WARC-1992 the bands 1885-2025 MHz and 2110-2200 MHz ERC/DEC/(97)07 (Satellite component: 1980-2010 MHz; 2170-2200 MHz) ERC/DEC(99)25 ERC/DEC(00)01</p> <p>ERC/DEC/(97)03 ERC/DEC/(97)04</p>
2010 - 2025	<p><b>FIXED</b></p> <p><b>MOBILE S5.BBB*</b></p> <p>S5.388*</p>	<p><b>Fixed links (FIX)</b></p> <p>IMT-2000 – International mobile telecommunication – 2000 (MOV)</p>	<p>2 GHz band Low and medium capacity analogue and digital fixed links: 30-960 channels and 2-34 Mbit/s Recommendations ITU-R F 283-5 (1.9-2.1 GHz) and ITU-R F 382-7 (1.7-2.1 GHz and 1.9-2.3 GHz) (to be cancelled)</p> <p>Designated by WARC-1992 the bands 1885-2025 MHz and 2110-2200 MHz ERC/DEC/(97)07 (Terrestrial component: 1900-1980 MHz; 2010-2025 MHz; 2110-2170 MHz) ERC/DEC(99)25 ERC/DEC(00)01</p>
2025 - 2110	<p><b>SPACE OPERATION</b> (Earth-to-space)(space-to-space)</p> <p><b>EARTH EXPLORATION-SATELLITE</b> (Earth-to-space) (space-to-space)</p> <p><b>FIXED</b></p> <p><b>MOBILE S5.391</b></p> <p><b>SPACE RESEARCH</b> (Earth-to-space) (space-to-space)</p> <p>S5.392</p>	<p><b>TCR – Tracking control and ranging (OE)</b></p> <p><b>DORIS system</b> (2036,25 MHz 400 Hz)</p> <p><b>Fixed links (FIX)</b></p>	<p>2 GHz band Low and medium capacity analogue and digital fixed links: 30-960 channels and 2-34 Mbit/s Recommendations ITU-R F 283-5 (1.9-2.1 GHz) and ITU-R F 382-7 (1.7-2.1 GHz and 1.9-2.3 GHz) (to be cancelled) Planned use in accordance with CEPT Rec T/R 13-01 Annex C (2025-2110 MHz)</p>

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
2110 - 2120	<p><b>FIXED</b></p> <p>MOBILE S5.BBB*</p> <p>SPACE RESEARCH (deep space) (Earth-to-space)</p> <p>S5.388*</p>	<p><b>Fixed links (FIX)</b></p> <p>IMT-2000 – International mobile telecommunication – 2000 (MOV)</p>	<p>2 GHz band Low and medium capacity analogue and digital fixed links: 30-960 channels and 2-34 Mbit/s Recommendations ITU-R F 283-5 (2.1-2.3 GHz) and ITU-R F 382-7 (1.9-2.3 GHz) (to be cancelled)</p> <p>Designated by WARC-1992 the bands 1885-2025 MHz and 2110-2200 MHz ERC/DEC/(97)07 (Terrestrial component: 1900-1980 MHz; 2010-2025 MHz; 2110-2170 MHz) ERC/DEC(99)25 ERC/DEC(00)01</p>
2120 - 2170	<p><b>FIXED</b></p> <p>MOBILE S5.BBB*</p> <p>S5.388*</p>	<p><b>Fixed links (FIX)</b></p> <p>IMT-2000 – International mobile telecommunication – 2000 (MOV)</p>	<p>2 GHz band Low and medium capacity analogue and digital fixed links: 30-960 channels and 2-34 Mbit/s Recommendations ITU-R F 283-5 and ITU-R F 382-7 (1900-2300 MHz) (to be cancelled)</p> <p>Designated by WARC-1992 the bands 1885-2025 MHz and 2110-2200 MHz ERC/DEC/(97)07 (Terrestrial component: 1900-1980 MHz; 2010-2025 MHz; 2110-2170 MHz) ERC/DEC(99)25 ERC/DEC(00)01</p>
2170 - 2200	<p><b>FIXED</b></p> <p>MOBILE</p> <p>MOBILE-SATELLITE (space-to-Earth) S5.SSS*</p> <p>S5.388*, S5.389A</p>	<p><b>Fixed links (FIX)</b></p> <p>IMT-2000 – International mobile telecommunication – 2000 (MOV)</p> <p>S-PCS (2170-2200 MHz)</p>	<p>2 GHz band Low and medium capacity analogue and digital fixed links: 30-960 channels and 2-34 Mbit/s Recommendations ITU-R F 283-5 and ITU-R F 382-7 (1900-2300 MHz) (to be cancelled) ERC/DEC/(97)04</p> <p>Designated by WARC-1992 the bands 1885-2025 MHz and 2110-2200 MHz ERC/DEC/(97)07 (Satellite component: 1980-2010 MHz; 2170-2200 MHz)</p> <p>ERC/DEC/(97)03 ERC/DEC/(97)04</p>

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
2200 - 2290	<p><b>SPACE OPERATION</b> (space-to-Earth) (space-to-space)</p> <p>EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space)</p> <p><b>FIXED</b></p> <p>MOBILE S5.391</p> <p>SPACE RESEARCH (space-to-Earth) (space-to-space)</p> <p>S5.392</p>	<p><b>TCR – Tracking, control and ranging (OE)</b></p> <p><b>Fixed links (FIX)</b></p>	<p>2 GHz band</p> <p>Low and medium capacity analogue and digital fixed links: 30-960 channels and 2-34 Mbit/s</p> <p>Recommendations ITU-R F 283-5 and ITU-R F 382-7 (1900-2300 MHz) (to be cancelled)</p> <p>Planned use in accordance with CEPT Rec T/R 13-01 Annex C (2200-2290 MHz)</p>
2290 - 2300	<p><b>FIXED</b></p> <p>MOBILE except aeronautical mobile</p> <p>SPACE RESEARCH (deep space) (space-to-Earth)</p>	<p><b>Fixed links (FIX)</b></p>	<p>2 GHz band</p> <p>Low and medium capacity analogue and digital fixed links: 30-960 channels and 2-34 Mbit/s</p> <p>Recommendations ITU-R F 283-5 and ITU-R F 382-7 (1900-2300 MHz) (to be cancelled)</p>
2300 - 2400	<p><b>FIXED</b></p> <p>MOBILE</p> <p>Amateur</p> <p>Radiolocation</p> <p>S5.150, S5.282</p>	<p><b>Fixed links (FIX)</b></p>	<p>2 GHz band</p> <p>ENG/OB – analogue transportable links for television broadcasting (2300-2500 MHz)</p> <p>Recommendation ITU-R F 283-5 (to be cancelled)</p>

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
2400 - 2450	<b>FIXED</b>  MOBILE Amateur <b>Amateur-satellite</b> S5.282 Radiolocation  S5.150	<b>Fixed links (FIX)</b>   <b>Amateur-satellite (AM-S)</b>  <b>ISM – Industrial, scientific and medical applications (2400-2500 MHz)</b>  <b>SRD – Non-specific short range devices (2400-2483,5 MHz); RLANS and HIPERLANs (2400-2483,5 MHz)</b>	2 GHz band ENG/OB – analogue transportable links for television broadcasting (2300-2500 MHz) Recommendation ITU-R F 283-5 (to be cancelled)  Amateur national regulations CEPT Rec T/R 61-01  CEPT/ERC/REC 70-03 Annex 1, Annex 3 National regulation no. 859/94 of 23/9
2450 - 2483,5	<b>FIXED</b>  MOBILE Radiolocation  S5.150	<b>Fixed links (FIX)</b>   <b>ISM – Industrial, scientific and medical applications (2400-2500 MHz)</b>  <b>SRD – Non-specific short range devices (2400-2483,5 MHz); RLANS and HIPERLANs (2400-2483,5 MHz)</b>	2 GHz band ENG/OB – analogue transportable links for television broadcasting (2300-2500 MHz) Recommendation ITU-R F 283-5 (to be cancelled)  CEPT/ERC/REC 70-03 Annex 1, Annex 3 National regulation no. 859/94 of 23/9
2483,5 - 2500	<b>FIXED</b>  MOBILE MOBILE-SATELLITE (space-to-Earth) S5.SSS* Radiolocation  S5.150, S5.371, S5.398, S5.399, S5.402	<b>Fixed links (FIX)</b>  S-PCS (2483,5-2500 MHz)  <b>ISM – Industrial, scientific and medical applications (2400-2500 MHz)</b>	2 GHz band ENG/OB – analogue transportable links for television and sound broadcasting (2300-2500 MHz) Recommendation ITU-R F 283-5 (to be cancelled)  ERC/DEC/(97)03

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
2500 - 2520	<b>FIXED</b> S5.409, S5.410, S5.411  MOBILE except aeronautical mobile S5.AAA*  MOBILE-SATELLITE (space-to-Earth) S5.403, S5.SSS*  S5.414	<b>Fixed links (FIX)</b>   IMT-2000 - International mobile telecommunications-2000 (MOV)	2 GHz band ENG/OB – analogue transportable links for television broadcasting (2500-2700 MHz) Recommendation ITU-R F 283-5 (to be cancelled)  Designated by WRC-2000 as additional bands (2500-2690 MHz)  Band allocated to the mobile satellite service up from 1.1.2005
2520 - 2655	<b>FIXED</b> S5.409, S5.410, S5.411  MOBILE except aeronautical mobile S5.AAA*  BROADCASTING-SATELLITE S5.413, S5.416  S5.339, S5.403, S5.[XXX2]*, S5.[XXX3]*	<b>Fixed links (FIX)</b>   IMT-2000 - International mobile telecommunications-2000 (MOV)	2 GHz band ENG/OB – analogue transportable links for television and sound broadcasting (2500-2700 MHz) Recommendation ITU-R F 283-5 (to be cancelled)  Designated by WRC-2000 as additional bands (2500-2690 MHz)
2655 - 2670	<b>FIXED</b> S5.409, S5.410, S5.411  MOBILE except aeronautical mobile S5.AAA*  BROADCASTING-SATELLITE S5.413, S5.416  Earth exploration-satellite (passive)  Radio astronomy  Space research (passive)  S5.149*, S5.420	<b>Fixed links (FIX)</b>   IMT-2000 - International mobile telecommunications-2000 (MOV)	2 GHz band ENG/OB – analogue transportable links for television broadcasting (2500-2700 MHz) Recommendation ITU-R F 283-5 (to be cancelled)  Designated by WRC-2000 as additional bands (2500-2690 MHz)
2670 - 2690	<b>FIXED</b> S5.409, S5.410, S5.411  MOBILE except aeronautical mobile S5.AAA*  MOBILE-SATELLITE (Earth-to-space) S5.SSS*  Earth exploration-satellite (passive)  Radio astronomy  Space research (passive)  S5.149*, S5.419, S5.420	<b>Fixed links (FIX)</b>   IMT-2000 - International mobile telecommunications-2000 (MOV)	2 GHz band ENG/OB – analogue transportable links for television broadcasting (2500-2700 MHz) Recommendation ITU-R F 283-5 (to be cancelled)  Designated by WRC-2000 as additional bands (2500-2690 MHz)  Band allocated to the mobile satellite service up from 1.1.2005



FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
2690 - 2700	EARTH EXPLORATION-SATELLITE (passive)  RADIO ASTRONOMY  SPACE RESEARCH (passive)  S5.340*	ALL EMISSIONS ARE PROHIBITED IN THIS BAND	
2700 - 2900	<b>AERONAUTICAL RADIONAVIGATION</b> S5.337  <b>METEOROLOGICAL AIDS</b> S5.423  <b>Radiolocation</b>	<b>Radionavigation systems (RVA)</b>  <b>Meteorological radars (METAX)</b>  <b>Radars (RVA, RLC)</b>	
2900 - 3100	<b>RADIONAVIGATION</b> S5.426  <b>Radiolocation</b>  S5.425, S5.427	<b>Radars (RVA, RLC)</b>	
3100 - 3300	<b>RADIOLOCATION</b>  Earth exploration-satellite (active)  Space research (active)  S5.149*	<b>Radars (RLC)</b>	Government
3300 - 3400	<b>RADIOLOCALIZAÇÃO</b>  S5.149*	<b>Radars (RLC)</b>	Government
3400 - 3600	<b>FIXED</b>  <b>FIXED-SATELLITE (space-to-Earth)</b>  Mobile  Radiolocation	<b>Fixed (FIX) – applications P-MP</b>  <b>Fixed-satellite (FIX-S)</b>	CEPT/ERC/REC 14-03, Annex B
3600 - 4200	<b>FIXED</b>       <b>FIXED-SATELLITE (space-to-Earth)</b>  Mobile	<b>Fixed links (FIX)</b>     <b>FWA (3 blocs of 2x28 MHz within the sub-band 3600-3800 MHz)</b>  <b>Fixed-satellite (FIX-S)</b>	4 GHz band Medium and high capacity analogue fixed links: 600-1800 channels Rec ITU-R F 382-7 (3800-4200 MHz)  CEPT/ERC/REC 12-08 Annex B (3600-3800 MHz)
4200 - 4400	<b>AERONAUTICAL RADIONAVIGATION</b> S5.438  S5.440	<b>Radars (RVA)</b>	

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
4400 - 4500	FIXED  MOBILE		Government
4500 - 4800	FIXED  FIXED-SATELLITE (space-to-Earth) S5.441*  MOBILE		RR Ap. S30B  Government
4800 - 4990	FIXED  MOBILE S5.442  Radio astronomy  S5.149*, S5.339		Government
4990 - 5000	FIXED  MOBILE except aeronautical mobile  RADIO ASTRONOMY  Space research (passive)  S5.149*		Government
5000 - 5150	AERONAUTICAL RADIONAVIGATION  S5.367, S5.444*, S5.444A, S5.444B*, S5.444C*		Band reserved for MLS system (5030-5150 MHz)
5150 - 5250	AERONAUTICAL RADIONAVIGATION  FIXED-SATELLITE (Earth-to-space) S5.447A  MOBILE (S5.447)*  S5.446, S5.447B, S5.447C	<b>HIPERLAN (5150-5250 MHz)</b>	ERC/DEC/(96)03 CEPT Rec T/R 22-06
5250 - 5255	EARTH EXPLORATION-SATELLITE (active)  RADIOLOCATION  SPACE RESEARCH  S5.447D, S5.448A	HIPERLAN (5250-5300 MHz)	CEPT Rec T/R 22-06 Government
5255 - 5350	EARTH EXPLORATION-SATELLITE (active)  RADIOLOCATION  SPACE RESEARCH (active)  S5.448A	HIPERLAN (5250-5300 MHz)	CEPT Rec T/R 22-06 Government

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
5350 - 5460	EARTH EXPLORATION-SATELLITE (active)  AERONAUTICAL RADIONAVIGATION S5.449  Radiolocation  S5.448B		
5460 - 5470	RADIONAVIGATION S5.449  Radiolocation		
5470 - 5600	<b>MARITIME RADIONAVIGATION</b>  Radiolocation  S5.452	<b>Radars (RVM)</b>	
5600 - 5650	<b>MARITIME RADIONAVIGATION</b>  <b>METEOROLOGICAL AIDS</b> S5.452  Radiolocation	<b>Radars (RVM)</b>  <b>Meteorological radars (METAX)</b>	
5650 - 5670	RADIOLOCATION  Amateur  <b>Amateur-satellite S5.282</b>  Space research (deep space)	<b>Amateur-satellite (AM-S)</b>	Amateur national regulations CEPT Rec T/R 61-01
5670 - 5725	RADIOLOCATION  Amateur  Space research (deep space)		
5725 - 5830	FIXED-SATELLITE (Earth-to-space)  RADIOLOCATION  <b>Amateur</b>          S5.150	<b>Amateur (AM)</b>  <b>ISM – Industrial, scientific and medical applications (5725-5875 MHz)</b>  <b>SRD – Non-specific short range devices (5725-5875 MHz)</b>  <b>RTT/RTI (5795-5815 MHz)</b>	Amateur national regulations CEPT Rec T/R 61-01   CEPT/ERC/REC 70-03 Annex 1 National regulation no. 859/94 of 23/9  ERC/DEC/(92)02

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
5830 - 5850	FIXED-SATELLITE (Earth-to-space)  RADIOLOCATION  <b>Amateur</b>  Amateur-satellite (space-to-Earth)    S5.150	<b>Amateur (AM)</b>  <b>ISM – Industrial, scientific and medical applications (5725-5875 MHz)</b>  <b>SRD – Non-specific short range devices (5725-5875 MHz)</b>	Amateur national regulations CEPT Rec T/R 61-01   CEPT/ERC/REC 70-03 Annex 1 National regulation no. 859/94 of 23/9
5850 - 5925	FIXED  FIXED-SATELLITE (Earth-to-space)  MOBILE    S5.150	<b>ISM – Industrial, scientific and medical applications (5725-5875 MHz)</b>  <b>SRD – Non-specific short range devices (5725-5875 MHz)</b>	CEPT/ERC/REC 70-03 Annex 1 National regulation no. 859/94 of 23/9
5925 - 6700	<b>FIXED</b>       <b>FIXED-SATELLITE (Earth-to-space)</b>   MOBILE  S5.149*, S5.440, S5.458	<b>Fixed links (FIX)</b>      <b>Fixed-satellite (FIX-S): VSATs; SNGs; occasional carriers; permanent carriers</b>	Lower 6 GHz band (5925-6425 MHz) Upper 6 GHz band (6425-7110 MHz) Medium and high capacity analogue fixed links: 600 to 1800 channels Recommendation ITU-R F 383-5 (5925-6425 MHz) Recommendation ITU-R F 384-6 (6425-7110 MHz)  5925-6425 MHz: non-preferential band for VSATs
6700 - 7075	<b>FIXED</b>      <b>FIXED-SATELLITE (Earth-to-space) (space-to-Earth) S5.441*</b>  MOBILE  S5.458, S5.458A, S5.458B, S5.458C	<b>Fixed links (FIX)</b>     <b>Fixed-satellite (FIX-S)</b>	Upper 6 GHz band (6425-7110 MHz) High capacity analogue and digital fixed links: 140 Mbit/s Recommendation ITU-R F 384-6 (6425-7110 MHz)  RR Ap. S30B (6725-7025 MHz)

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
7075 - 7250	<b>FIXED</b>  MOBILE S5.458, S5.460	<b>Fixed links (FIX)</b>	Upper 6 GHz band (6425-7110 MHz) High capacity analogue and digital fixed links: 140 Mbit/s Recommendation ITU-R F 384-6 (6425-7110 MHz) Recommendation ITU-R F 385-6 (7110-7425 MHz)
7250 - 7300	<b>FIXED</b>  <b>FIXED-SATELLITE (space-to-Earth)</b>  MOBILE S5.461	<b>Fixed links (FIX)</b>  <b>Fixed-satellite (FIX-S)</b>	Recommendation ITU-R F 385-6 (7110-7425 MHz)  Government
7300 - 7450	<b>FIXED</b>  <b>FIXED-SATELLITE (space-to-Earth)</b>  MOBILE except aeronautical mobile S5.461	<b>Fixed links (FIX)</b>  <b>Fixed-satellite (FIX-S)</b>	7 GHz band Low capacity analogue and digital fixed links: up to 120 channels and 4 x 2 Mbit/s, respectively Recommendation ITU-R F 385-6 (7110-7425 MHz)
7450 - 7550	<b>FIXED</b>  <b>FIXED-SATELLITE (space-to-Earth)</b>  <b>METEOROLOGICAL-SATELLITE (space-to-Earth)</b>  MOBILE except aeronautical mobile S5.461A	<b>Fixed links (FIX)</b>  <b>Fixed-satellite (FIX-S)</b>  <b>Meteorological-satellite (MET-S)</b>	7 GHz band Low capacity analogue and digital fixed links: up to 120 channels and 4 x 2 Mbit/s, respectively Recommendation ITU-R F 385-6 (7425-7750 MHz)
7550 - 7750	<b>FIXED</b>  <b>FIXED-SATELLITE (space-to-Earth)</b>  MOBILE except aeronautical mobile	<b>Fixed links (FIX)</b>  <b>Fixed-satellite (FIX-S)</b>	7 GHz band Low capacity analogue and digital fixed links: up to 120 channels and 4 x 2 Mbit/s, respectively Recommendation ITU-R F 385-6 (7425-7750 MHz)

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
7750 - 7850	<b>FIXED</b>  METEOROLOGICAL-SATELLITE (space-to-Earth) S5.461B  MOBILE except aeronautical mobile	<b>Fixed links (FIX)</b>	8 GHz band Low capacity analogue and digital fixed links: up to 120 channels and 4 x 2 Mbit/s, respectively Recommendation ITU-R F 386-5 (7700-8300 MHz)
7850 - 7900	<b>FIXED</b>  MOBILE except aeronautical mobile	<b>Fixed links (FIX)</b>	8 GHz band Low capacity analogue and digital fixed links: up to 120 channels and 4 x 2 Mbit/s, respectively Recommendation ITU-R F 386-5 (7700-8300 MHz)
7900 - 8025	<b>FIXED</b>  <b>FIXED-SATELLITE (Earth-to-space)</b>  MOBILE S5.461	<b>Fixed links (FIX)</b>  <b>Fixed-satellite (FIX-S)</b>	8 GHz band Low capacity analogue and digital fixed links: up to 120 channels and 4 x 2 Mbit/s, respectively Recommendation ITU-R F 386-5 (7700-8300 MHz)  Government (7975-8025 MHz)
8025 - 8175	EARTH EXPLORATION-SATELLITE (space-to-Earth)  <b>FIXED</b>  <b>FIXED-SATELLITE (Earth-to-space)</b>  MOBILE S5.463 S5.462A	<b>Fixed links (FIX)</b>  <b>Fixed-satellite (FIX-S)</b>	8 GHz band Low capacity analogue and digital fixed links: up to 120 channels and 4 x 2 Mbit/s, respectively Recommendation ITU-R F 386-5 (7700-8300 MHz)
8175 - 8215	EARTH EXPLORATION-SATELLITE (space-to-Earth)  <b>FIXED</b>  <b>FIXED-SATELLITE (Earth-to-space)</b>  METEOROLOGICAL-SATELLITE (Earth-to-space)  MOBILE S5.463 S5.462A	<b>Fixed links (FIX)</b>  <b>Fixed-satellite (FIX-S)</b>  Meteorological-satellite (MET-S)	8 GHz band Low capacity analogue and digital fixed links: up to 120 channels and 4 x 2 Mbit/s, respectively Recommendation ITU-R F 386-5 (7700-8300 MHz; 8200-8500 MHz)

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
8215 - 8400	<p>EARTH EXPLORATION-SATELLITE (space-to-Earth)</p> <p><b>FIXED</b></p> <p><b>FIXED-SATELLITE (Earth-to-space)</b></p> <p>MOBILE S5.463</p> <p>S5.462A</p>	<p><b>Fixed links (FIX)</b></p> <p><b>Fixed-satellite (FIX-S)</b></p>	<p>8 GHz band</p> <p>Low capacity analogue and digital fixed links: up to 120 channels and 4 x 2 Mbit/s, respectively</p> <p>Recommendation ITU-R F 386-5 (7700-8300 MHz; 8200-8500 MHz)</p>
8400 - 8500	<p><b>FIXED</b></p> <p>MOBILE except aeronautical mobile</p> <p>SPACE RESEARCH (space-to-Earth) S5.465</p>	<p><b>Fixed links (FIX)</b></p>	<p>8 GHz band</p> <p>Low capacity analogue and digital fixed links: up to 120 channels and 4 x 2 Mbit/s, respectively</p> <p>Recommendation ITU-R F 386-5 (8200-8500 MHz)</p>
8500 - 8550	RADIOLOCATION		Government
8550 - 8650	<p>EARTH EXPLORATION-SATELLITE (active)</p> <p>RADIOLOCATION</p> <p>SPACE RESEARCH (active)</p> <p>S5.469A</p>		Government
8650 - 8750	RADIOLOCATION		Government
8750 - 8850	<p>RADIOLOCATION</p> <p>AERONAUTICAL RADIONAVIGATION S5.470</p>		Government
8850 - 9000	<p>RADIOLOCATION</p> <p>MARITIME RADIONAVIGATION S5.472</p>		Government
9000 - 9200	<p><b>AERONAUTICAL RADIONAVIGATION</b> S5.337</p> <p><b>Radiolocation</b></p>	<b>Radars (RVA, RLC)</b>	

FREQUENCY BAND (MHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
9200 - 9300	<b>RADIOLOCATION</b>  <b>MARITIME RADIONAVIGATION</b> S5.472  S5.474	Radars (RVM, RLC) – SARTs	
9300 - 9500	<b>RADIONAVIGATION</b> S5.476  <b>Radiolocation</b>  S5.427, S5.474, S5.475	Radars (RVA, RLC) – SARTs	
9500 - 9800	EARTH EXPLORATION-SATELLITE (active)  Radiolocation  RADIONAVIGATION  SPACE RESEARCH (active)  S5.476A	<b>SRD – Equipment for detecting movement and equipment for alert (9500-9975 MHz)</b>	CEPT/ERC/REC 70-03 Annex 6 National regulation no. 859/94 of 23/9
9800 - 10000	<b>RADIOLOCATION</b>  Fixed  S5.479	<b>SRD – Equipment for detecting movement and equipment for alert (9500-9975 MHz)</b>	CEPT/ERC/REC 70-03 Annex 6 National regulation no. 859/94 of 23/9



FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
10 - 10,45	FIXED  MOBILE  RADIOLOCATION  <b>Amateur</b>  S5.479	<b>Amateur (AM)</b>	Amateur national regulations CEPT Rec T/R 61-01
10,45 - 10,5	RADIOLOCATION  <b>Amateur</b>  Amateur-satellite	<b>Amateur (AM)</b>  Amateur-satellite (AM-S)	Amateur national regulations CEPT Rec T/R 61-01
10,5 - 10,55	<b>FIXED</b>  MOBILE  Radiolocation	<b>Fixed (FIX)</b>	10 GHz band ENG/OB – analogue transportable links for television broadcasting (10,5-10,68 GHz)
10,55 - 10,6	<b>FIXED</b>  MOBILE except aeronautical mobile  Radiolocation	<b>Fixed (FIX)</b>	10 GHz band ENG/OB – analogue transportable links for television broadcasting (10,5-10,68 GHz)
10,6 - 10,68	EARTH EXPLORATION-SATELLITE (passive)  <b>FIXED</b>  MOBILE except aeronautical mobile  RADIO ASTRONOMY  SPACE RESEARCH (passive)  Radiolocation  S5.149*, S5.482	<b>Fixed (FIX)</b>	10 GHz band ENG/OB – analogue transportable links for television broadcasting (10,5-10,68 GHz)
10,68 - 10,7	EARTH EXPLORATION-SATELLITE (passive)  RADIO ASTRONOMY  SPACE RESEARCH (passive)  Radiolocation  S5.340*, S5.482	ALL EMISSIONS ARE PROHIBITED IN THIS BAND	

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
10,7 - 11,7	<p><b>FIXED</b></p> <p><b>FIXED-SATELLITE (space-to-Earth)</b> S5.441*, S5.484A* S5.484</p> <p><b>MOBILE</b> except aeronautical mobile</p>	<p><b>Fixed links (FIX)</b></p> <p><b>Fixed-satellite (FIX-S): VSATs; SNGs</b></p> <p><b>EUTELTRACS – Land mobile satellite system for data communications (10,7-11,7 GHz)</b></p>	<p>11 GHz band High capacity digital fixed links: 140 Mbit/s Rec. ITU-R F 387-7 Annex 2 (10,7-11,7 GHz)</p> <p>RR Ap. S30B: (10,7-10,95 GHz; 11,2-11,45 GHz) 10,95-11,2 GHz and 11,45-11,7 GHz: non-preferential bands for VSATs and SNGs applications</p>
11,7 - 12,5	<p><b>FIXED</b></p> <p><b>BROADCASTING</b></p> <p><b>BROADCASTING-SATELLITE</b></p> <p><b>MOBILE</b> except aeronautical mobile</p> <p>S5.487*, S5.487A*, S5.492*</p>		<p>12 GHz band</p> <p>RR Ap. S30 and Ap. S30A</p>
12,5 - 12,75	<p><b>FIXED-SATELLITE (space-to-Earth)</b> S5.484A*, S5.487A* (Earth-to-space)</p> <p>Fixed (S5.495)*</p> <p><b>Mobile</b> except aeronautical mobile (S5.495)*</p>	<p><b>Fixed-satellite (FIX-S): VSATs; SNGs</b></p> <p><b>EUTELTRACS – Land mobile satellite system for data communications (12,5-12,75 GHz)</b></p>	<p>Preferential band for VSATs and SNGs CEPT/ERC/REC 13-03</p> <p>12 GHz band</p>
12,75 - 13,25	<p><b>FIXED</b></p> <p><b>FIXED-SATELLITE (Earth-to-space)</b> S5.441*</p> <p><b>MOBILE</b></p> <p>Space research (deep space) (space-to-Earth)</p>	<p><b>Fixed links (FIX)</b></p>	<p>13 GHz band Low and medium capacity digital fixed links: up to 34 Mbit/s Rec. ITU-R F 497-5 (12,75-13,25 GHz)</p> <p>RR Ap. S30B</p>
13,25 - 13,4	<p><b>EARTH EXPLORATION-SATELLITE (active)</b></p> <p><b>AERONAUTICAL RADIONAVIGATION</b> S5.497</p> <p><b>SPACE RESEARCH (active)</b> S5.498A</p>		

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
13,4 - 13,75	EARTH EXPLORATION-SATELLITE (active)  RADIOLOCATION  SPACE RESEARCH S5.501A  Standard frequency and time signal-satellite (Earth-to-space)  S5.501B	<b>SRD – Equipment for detecting movement and equipment for alert (13,4-14 GHz)</b>	CEPT/ERC/REC 70-03 Annex 6 National regulation no. 859/94 of 23/9  Government
13,75 - 14	FIXED-SATELLITE (Earth-to-space) S5.484A*  RADIOLOCATION  Standard frequency and time signal-satellite (Earth-to-space)  Space research  S5.502*, S5.503*, S5.503A	<b>SRD – Equipment for detecting movement and equipment for alert (13,4-14 GHz)</b>	CEPT/ERC/REC 70-03 Annex 6 National regulation no. 859/94 of 23/9  Government
14 - 14,25	<b>FIXED-SATELLITE (Earth-to-space)</b> S5.484A*, S5.506  RADIONAVIGATION S5.504  <b>Mobile-satellite (Earth-to-space) except aeronautical mobile-satellite</b>  Space research	<b>Fixed-satellite (FIX-S): VSATs; SNGs; occasional carriers</b>  <b>EUTELTRACS – Land mobile satellite system for data communications (14-14,25 GHz)</b>	Preferential band for VSATs and SNGs CEPT/ERC/REC 13-03
14,25 - 14,3	<b>FIXED-SATELLITE (Earth-to-space)</b> S5.484A*, S5.506  RADIONAVIGATION S5.504  Mobile-satellite (Earth-to-space) except aeronautical mobile-satellite  Space research  FIXED (S5.508)*	<b>Fixed-satellite (FIX-S): VSATs; SNGs; occasional carriers</b>	Non-preferential band for VSATs and SNGs applications CEPT/ERC/REC 13-03  14 GHz band
14,3 - 14,4	FIXED  <b>FIXED-SATELLITE (Earth-to-space)</b> S5.484A*, S5.506  MOBILE except aeronautical mobile  Mobile-satellite (Earth-to-space) except aeronautical mobile-satellite  Radionavigation-satellite	<b>Fixed-satellite (FIX-S): VSATs; SNGs; occasional carriers</b>	14 GHz band  Non-preferential band for VSATs and SNGs applications CEPT/ERC/REC 13-03

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
14,4 - 14,47	<p>FIXED</p> <p><b>FIXED-SATELLITE (Earth-to-space)</b> S5.484A*, S5.506</p> <p>MOBILE except aeronautical mobile</p> <p>Mobile-satellite (Earth-to-space) except aeronautical mobile-satellite</p> <p>Space research (space-to-Earth)</p>	<b>Fixed-satellite (FIX-S): VSATs; SNGs; occasional carriers</b>	<p>14 GHz band</p> <p>Non-preferential band for VSATs and SNGs applications CEPT/ERC/REC 13-03</p>
14,47 - 14,5	<p>FIXED</p> <p><b>FIXED-SATELLITE (Earth-to-space)</b> S5.484A*, S5.506</p> <p>MOBILE except aeronautical mobile</p> <p>Mobile-satellite (Earth-to-space) except aeronautical mobile-satellite</p> <p>Radio astronomy</p> <p>S5.149*</p>	<b>Fixed-satellite (FIX-S): VSATs; SNGs; occasional carriers</b>	<p>14 GHz band</p> <p>Non-preferential band for VSATs and SNGs applications CEPT/ERC/REC 13-03</p>
14,5 - 14,8	<p><b>FIXED</b></p> <p>FIXED-SATELLITE (Earth-to-space) S5.510</p> <p>MOBILE</p> <p>Space research</p>	<b>Fixed links (FIX)</b>	<p>15 GHz band CEPT/ERC/REC 12-07 Annex A (14,5-14,62 GHz)</p> <p>Government (14,62-14,8 GHz)</p>
14,8 - 15,35	<p><b>FIXED</b></p> <p>MOBILE</p> <p>Space research</p> <p>S5.339</p>	<b>Fixed links (FIX)</b>	<p>15 GHz band CEPT/ERC/REC 12-07 Annex A (15,23-15,35 GHz)</p> <p>Government (14,8-15,23 GHz)</p>
15,35 - 15,4	<p>EARTH EXPLORATION-SATELLITE (passive)</p> <p>RADIO ASTRONOMY</p> <p>SPACE RESEARCH (passive)</p> <p>S5.340*, S5.511</p>	ALL EMISSIONS ARE PROHIBITED IN THIS BAND	
15,4 - 15,43	AERONAUTICAL RADIONAVIGATION S5.511D		

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
15,43 - 15,63	FIXED-SATELLITE (Earth-to-space) S5.511A*  AERONAUTICAL RADIONAVIGATION  S5.511C		
15,63 - 15,7	AERONAUTICAL RADIONAVIGATION S5.511D		
15,7 - 16,6	<b>RADIOLOCATION</b>	<b>Radars (RLC)</b>	Government
16,6 - 17,1	<b>RADIOLOCATION</b>  Space research (deep space) (Earth-to-space)	<b>Radars (RLC)</b>	Government
17,1 - 17,2	RADIOLOCATION	HIPERLANs (17,1-17,3 GHz)	CEPT Rec T/R 22-06 Government
17,2 - 17,3	EARTH EXPLORATION-SATELLITE (active)  RADIOLOCATION  SPACE RESEARCH (active)  S5.513A	HIPERLANs (17,1-17,3 GHz)	CEPT Rec T/R 22-06 Government
17,3 - 17,7	FIXED-SATELLITE (Earth-to-space) S5.516*  Radiolocation		
17,7 - 18,1	<b>FIXED</b>  FIXED-SATELLITE (space-to-Earth) S5.484A* (Earth-to-space) S5.516*  MOBILE	<b>Fixed links (FIX)</b>	18 GHz band Low and high capacity digital fixed links: up to 140 Mbit/s Rec. ITU-R F 595-5 (17,7-19,7 GHz)
18,1 - 18,4	<b>FIXED</b>  FIXED-SATELLITE (space-to-Earth) S5.484A* (Earth-to-space) S5.520*  MOBILE  S5.519	<b>Fixed links (FIX)</b>	18 GHz band Low and high capacity digital fixed links: up to 140 Mbit/s Rec. ITU-R F 595-5 (17,7-19,7 GHz)

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
18,4 - 18,6	<b>FIXED</b>  FIXED-SATELLITE (space-to-Earth) S5.484A*  MOBILE	<b>Fixed links (FIX)</b>	18 GHz band Low and high capacity digital fixed links: up to 140 Mbit/s Rec. ITU-R F 595-5 (17,7-19,7 GHz)
18,6 - 18,8	EARTH EXPLORATION-SATELLITE (passive)  <b>FIXED</b>  FIXED-SATELLITE (space-to-Earth) S5.522B*  MOBILE except aeronautical mobile  Space research (passive)  S5.522A*	<b>Fixed links (FIX)</b>	18 GHz band Low and high capacity digital fixed links: up to 140 Mbit/s Rec. ITU-R F 595-5 (17,7-19,7 GHz)
18,8 - 19,3	<b>FIXED</b>  FIXED-SATELLITE (space-to-Earth) S5.523A  MOBILE	<b>Fixed links (FIX)</b>	18 GHz band Low and high capacity digital fixed links: up to 140 Mbit/s Rec. ITU-R F 595-5 (17,7-19,7 GHz)
19,3 - 19,7	<b>FIXED</b>  FIXED-SATELLITE (space-to-Earth) (Earth-to-space) S5.523B, S5.523C, S5.523D, S5.523E  MOBILE	<b>Fixed links (FIX)</b>	18 GHz band Low and high capacity digital fixed links: up to 140 Mbit/s Rec. ITU-R F 595-5 (17,7-19,7 GHz)
19,7 - 20,1	FIXED-SATELLITE (space-to-Earth) S5.484A*  Mobile-satellite (space-to-Earth)		
20,1 - 20,2	FIXED-SATELLITE (space-to-Earth) S5.484A*  MOBILE-SATELLITE (space-to-Earth)  S5.525, S5.526, S5.527, S5.528		

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
20,2 - 21,2	FIXED-SATELLITE (space-to-Earth)  MOBILE-SATELLITE (space-to-Earth)  Standard frequency and time signal (space-to-Earth)		Government
21,2 - 21,4	EARTH EXPLORATION-SATELLITE (passive)  FIXED  MOBILE  SPACE RESEARCH (passive)		
21,4 - 22	FIXED  MOBILE  BROADCASTING-SATELLITE  S5.530		
22 - 22,21	<b>FIXED</b>      MOBILE except aeronautical mobile  S5.149*	<b>Fixed links (FIX)</b>	23 GHz band Low and medium capacity digital fixed links: up to 34 Mbit/s Rec. ITU-R F 637-2 (to be cancelled) Planned use in accordance with T/R 13-02 Annex A (22-22,6 GHz)
22,21 - 22,5	EARTH EXPLORATION-SATELLITE (passive)  <b>FIXED</b>     MOBILE except aeronautical mobile  RADIO ASTRONOMY  SPACE RESEARCH (passive) S5.149*, S5.532	<b>Fixed links (FIX)</b>	23 GHz band Low and medium capacity digital fixed links: up to 34 Mbit/s Rec. ITU-R F 637-2 (to be cancelled) Planned use in accordance with T/R 13-02 Annex A (22-22,6 GHz)
22,5 - 22,55	<b>FIXED</b>        MOBILE	<b>Fixed links (FIX)</b>	23 GHz band Low and medium capacity digital fixed links: up to 34 Mbit/s Rec. ITU-R F 637-2 (to be cancelled) Planned use in accordance with T/R 13-02 Annex A (22-22,6 GHz)

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
22,55 - 23,55	<b>FIXED</b>  INTER-SATELLITE  MOBILE  S5.149*	<b>Fixed links (FIX)</b>	23 GHz band Low and medium capacity digital fixed links: up to 34 Mbit/s Rec. ITU-R F 637-2 (to be cancelled) Planned use in accordance with T/R 13-02 Annex A (22-22,6 GHz; 23-23,6 GHz)
23,55 - 23,6	<b>FIXED</b>  MOBILE	<b>Fixed links (FIX)</b>	23 GHz band Planned use in accordance with CEPT Rec T/R 13-02 Annex A (23-23,6 GHz)
23,6 - 24	EARTH EXPLORATION-SATELLITE (passive)  RADIO ASTRONOMY  SPACE RESEARCH (passive)  S5.340*	ALL EMISSIONS ARE PROHIBITED IN THIS BAND	
24 - 24,05	<b>AMATEUR</b>  <b>AMATEUR-SATELLITE</b>        S5.150	<b>Amateur (AM)</b>  <b>Amateur-satellite (AM-S)</b>  <b>ISM – Industrial, scientific and medical applications (24-24,25 GHz)</b>  <b>SRD – Non-specific short range devices (24-24,25 GHz)</b>	Amateur national regulations CEPT Rec T/R 61-01      CEPT/ERC/REC 70-03 Annex 1 National regulation no. 859/94 of 23/9
24,05 - 24,25	<b>RADIOLOCATION</b>  <b>Amateur</b>  Earth exploration-satellite (active)     S5.150	<b>Radars (RLC)</b>  <b>Amateur (AM) (24,05-24,15 GHz)</b>  <b>ISM – Industrial, scientific and medical applications (24-24,25 GHz)</b>  <b>SRD – Non-specific short range devices (24-24,25 GHz)</b>	Amateur national regulations CEPT Rec T/R 61-01      CEPT/ERC/REC 70-03 Annex 1 National regulation no. 859/94 of 23/9
24,25 - 24,45	<b>FIXED</b>		
24,45 - 24,75	<b>FIXED</b>  INTER-SATELLITE	<b>FWA (6 blocs of 2x56 MHz within the sub-band 24,5-26,5 GHz)</b>	CEPT Rec T/R 13-02 Annex B (24,5-26,5 GHz)



FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
24,75 - 25,25	<b>FIXED</b>	<b>FWA (6 blocs of 2x56 MHz within the sub-band 24,5-26,5 GHz)</b>	CEPT Rec T/R 13-02 Annex B (24,5-26,5 GHz)  Government (25,242-25,25 GHz)
25,25 - 25,5	<b>FIXED</b>  INTER-SATELLITE S5.536  MOBILE  Standard frequency and time signal-satellite (Earth-to-space)	<b>FWA (6 blocs of 2x56 MHz within the sub-band 24,5-26,5 GHz)</b>	CEPT Rec T/R 13-02 Annex B (24,5-26,5 GHz)
25,5 - 27	EARTH EXPLORATION-SATELLITE (space-to-Earth) S5.536A*, S5.536B  <b>FIXED</b>  INTER-SATELLITE S5.536  MOBILE  Standard frequency and time signal-satellite (Earth-to-space)	<b>FWA (6 blocs of 2x56 MHz within the sub-band 24,5-26,5 GHz)</b>	CEPT Rec T/R 13-02 Annex B (24,5-26,5 GHz)   Government (26,25-27 GHz)
27 - 27,5	<b>FIXED</b>  INTER-SATELLITE S5.536  MOBILE		Government
27,5 - 28,5	<b>FIXED</b>  FIXED-SATELLITE (Earth-to-space) S5.484A*, S5.539  MOBILE  S5.538, S5.540	<b>FWA (2 blocs of 2x175 MHz within the sub-band 27,5-29,5 GHz)</b>	CEPT Rec T/R 13-02 Annex C (27,5-29,5 GHz)
28,5 - 29,1	<b>FIXED</b>  FIXED-SATELLITE (Earth-to-space) S5.484A*, S5.523A, S5.539  MOBILE  Earth exploration-satellite (Earth-to-space) S5.541  S5.540	<b>FWA (2 blocs of 2x175 MHz within the sub-band 27,5-29,5 GHz)</b>	CEPT Rec T/R 13-02 Annex C (27,5-29,5 GHz)

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
29,1 - 29,5	<b>FIXED</b>  FIXED-SATELLITE (Earth-to-space) S5.523C, S5.523E, S5.535A, S5.539, S5.541A*  <b>MOBILE</b>  Earth exploration-satellite (Earth-to-space) S5.541  S5.540	<b>FWA (2 blocs of 2x175 MHz within the sub-band 27,5-29,5 GHz)</b>	CEPT Rec T/R 13-02 Annex C (27,5-29,5 GHz)
29,5 - 29,9	FIXED-SATELLITE (Earth-to-space) S5.484A*, S5.539  Earth exploration-satellite (Earth-to-space) S5.541  Mobile-satellite (Earth-to-space)  S5.540		
29,9 - 30	FIXED-SATELLITE (Earth-to-space) S5.484A*, S5.539  <b>MOBILE-SATELLITE</b> (Earth-to-space)  Earth exploration-satellite (Earth-to-space) S5.541  S5.525, S5.526, S5.527, S5.538, S5.540, S5.543		
30 - 31	FIXED-SATELLITE (Earth-to-space)  <b>MOBILE-SATELLITE</b> (Earth-to-space)  Standard frequency and time signal-satellite (space-to-Earth)		Government
31 - 31,3	<b>FIXED</b>  <b>MOBILE</b>  Standard frequency and time signal-satellite (space-to-Earth)  Space research S5.544  S5.149*		31 GHz band

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
31,3 - 31,5	EARTH EXPLORATION-SATELLITE (passive)  RADIO ASTRONOMY  SPACE RESEARCH (passive)  S5.340*	ALL EMISSIONS ARE PROHIBITED IN THIS BAND	
31,5 - 31,8	EARTH EXPLORATION-SATELLITE (passive)  RADIO ASTRONOMY  SPACE RESEARCH (passive)  Fixed  Mobile except aeronautical mobile  S5.149*		
31,8 - 32	FIXED S5.547A*  RADIONAVIGATION  SPACE RESEARCH (deep space) (space-to-Earth)  S5.547*, S5.548		
32 - 32,3	FIXED S5.547A*  INTER-SATELLITE  RADIONAVIGATION  SPACE RESEARCH (deep space) (space-to-Earth)  S5.547*, S5.548		
32,3 - 33	FIXED S5.547A*  INTER-SATELLITE  RADIONAVIGATION  S5.547*, S5.548		
33 - 33,4	FIXED S5.547A*  RADIONAVIGATION  S5.547*		
33,4 - 34,2	RADIOLOCATION		Government

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
34,2 - 34,7	RADIOLOCATION  SPACE RESEARCH (deep space) (Earth-to-space)		Government
34,7 - 35,2	RADIOLOCATION  Space research		Government
35,2 - 35,5	METEOROLOGICAL AIDS  RADIOLOCATION		Government
35,5 - 36	METEOROLOGICAL AIDS  EARTH EXPLORATION-SATELLITE (active)  RADIOLOCATION  SPACE RESEARCH (active)  S5.551A		Government
36 - 37	EARTH EXPLORATION-SATELLITE (passive)  FIXED  MOBILE  SPACE RESEARCH (passive)  S5.149*		Government
37 - 37,5	<b>FIXED</b>  MOBILE  SPACE RESEARCH (space-to-Earth)  S5.547*	<b>Fixed links (FIX)</b>	38 GHz band CEPT Rec T/R 12-01 (37-39,5 GHz)
37,5 - 38	<b>FIXED</b>  FIXED-SATELLITE (space-to-Earth)  MOBILE  SPACE RESEARCH (space-to-Earth)  Earth exploration-satellite (space-to-Earth)  S5.547*, S5.NGSO*	<b>Fixed links (FIX)</b>	38 GHz band CEPT Rec T/R 12-01 (37-39,5 GHz)

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
38 - 39,5	<b>FIXED</b>  FIXED-SATELLITE (space-to-Earth)  MOBILE  Earth exploration-satellite (space-to-Earth)  S5.547*, S5.NGSO*	<b>Fixed links (FIX)</b>	38 GHz band CEPT Rec T/R 12-01 (37-39,5 GHz)
39,5 - 40	<b>FIXED</b>  FIXED-SATELLITE (space-to-Earth)  MOBILE  MOBILE-SATELLITE (space-to-Earth)  Earth exploration-satellite (space-to-Earth)  S5.547*, S5.NGSO*		
40 - 40,5	EARTH EXPLORATION-SATELLITE (Earth-to-space)  <b>FIXED</b>  FIXED-SATELLITE (space-to-Earth)  MOBILE  MOBILE-SATELLITE (space-to-Earth)  SPACE RESEARCH (Earth-to-space)  Earth exploration-satellite (space-to-Earth)		
40,5 - 41	<b>FIXED</b>  FIXED-SATELLITE (space-to-Earth)  BROADCASTING  BROADCASTING-SATELLITE  Mobile  S5.547*	MWS, including MVDS (40,5-43,5 GHz)	ERC/DEC/(99)15 CEPT Rec T/R 52-01

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
41 - 42	FIXED FIXED-SATELLITE (space-to-Earth) BROADCASTING BROADCASTING-SATELLITE Mobile S5.547*, S5.RAS*	MWS, including MVDS (40,5-43,5 GHz)	ERC/DEC/(99)15 CEPT Rec T/R 52-01
42 - 42,5	FIXED FIXED-SATELLITE (space-to-Earth) BROADCASTING BROADCASTING-SATELLITE Mobile S5.547*, S5.RAS*, S5.NGSO*	MWS, including MVDS (40,5-43,5 GHz)	ERC/DEC/(99)15 CEPT Rec T/R 52-01
42,5 - 43,5	FIXED FIXED-SATELLITE (Earth-to-space) S5.552 MOBILE except aeronautical mobile RADIO ASTRONOMY S5.149*, S5.547*	MWS, including MVDS (40,5-43,5 GHz)	ERC/DEC/(99)15 CEPT Rec T/R 52-01
43,5 - 47	MOBILE S5.553* MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE S5.554*		Government (43,5-45,5 GHz)
47 - 47,2	<b>AMATEUR</b> <b>AMATEUR-SATELLITE</b>	<b>Amateur (AM)</b> <b>Amateur-satellite (AM-S)</b>	Amateur national regulations CEPT Rec T/R 61-01
47,2 - 50,2	FIXED FIXED-SATELLITE (Earth-to-space) S5.552 MOBILE S5.149*, S5.340*, S5.552A, S5.555*		

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
50,2 - 50,4	<b>EARTH EXPLORATION-SATELLITE (passive)</b>  SPACE RESEARCH (passive) S5.340*, S5.555A	<b>Radiometers - passive sensors (EXP-S)</b>  ALL EMISSIONS ARE PROHIBITED IN THIS BAND	
50,4 - 51,4	FIXED  FIXED-SATELLITE (Earth-to-space)  MOBILE  Mobile-satellite (Earth-to-space)		
51,4 - 52,6	FIXED  MOBILE  S5.547*, S5.556*		
52,6 - 54,25	<b>EARTH EXPLORATION-SATELLITE (passive)</b>  SPACE RESEARCH (passive)  S5.340*, S5.556*	<b>Radiometers - passive sensors (EXP-S)</b>  ALL EMISSIONS ARE PROHIBITED IN THIS BAND	
54,25 - 55,78	<b>EARTH EXPLORATION-SATELLITE (passive)</b>  INTER-SATELLITE S5.556A  SPACE RESEARCH (passive)	<b>Radiometers - passive sensors (EXP-S)</b>	
55,78 - 56,9	<b>EARTH EXPLORATION-SATELLITE (passive)</b>  FIXED S5.XXZ*  INTER-SATELLITE S5.556A  MOBILE S5.558*  SPACE RESEARCH (passive)  S5.547*	<b>Radiometers - passive sensors (EXP-S)</b>	55 GHz band
56,9 - 57	<b>EARTH EXPLORATION-SATELLITE (passive)</b>  FIXED  INTER-SATELLITE S5.558A  MOBILE S5.558*  SPACE RESEARCH (passive)  S5.547*	<b>Radiometers - passive sensors (EXP-S)</b>	55 GHz band

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
57 - 58,2	<b>EARTH EXPLORATION-SATELLITE (passive)</b>  FIXED  INTER-SATELLITE S5.556A  MOBILE S5.558*  SPACE RESEARCH (passive)  S5.547*	<b>Radiometers - passive sensors (EXP-S)</b>  Fixed links (FIX)	58 GHz band CEPT/ERC/REC 12-09 (57-59 GHz)
58,2 - 59	<b>EARTH EXPLORATION-SATELLITE (passive)</b>  FIXED  MOBILE  SPACE RESEARCH (passive)  S5.547*, S5.556*	<b>Radiometers - passive sensors (EXP-S)</b>  Fixed links (FIX)	58 GHz band CEPT/ERC/REC 12-09 (57-59 GHz)
59 - 59,3	<b>EARTH EXPLORATION-SATELLITE (passive)</b>  FIXED  INTER-SATELLITE S5.556A  MOBILE S5.558*  RADIOLOCATION S5.559*  SPACE RESEARCH (passive)		Government
59,3 - 64	FIXED  INTER-SATELLITE  MOBILE S5.558*  RADIOLOCATION S5.559*      S5.138	<b>ISM – Industrial, scientific and medical applications (61-61,5 GHz)</b>  <b>SRD – Non-specific short range devices (61-61,5 GHz)</b>  <b>RTT / RTI (63-64 GHz)</b>	CEPT/ERC/REC 70-03 Annex 1 National regulation nº 859/94 of 23/9  ERC/DEC/(92)02  Government (59,3-61 GHz)
64 - 65	FIXED  INTER-SATELLITE  MOBILE except aeronautical mobile  S5.547*, S5.556*		



FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
65 - 66	EARTH EXPLORATION-SATELLITE  FIXED  INTER-SATELLITE  MOBILE except aeronautical mobile  SPACE RESEARCH  S5.547*		
66 - 71	INTER-SATELLITE  MOBILE S5.553*, S5.558*  MOBILE-SATELLITE  RADIONAVIGATION  RADIONAVIGATION-SATELLITE  S5.554*		
71 - 74	FIXED  FIXED-SATELLITE (space-to-Earth)  MOBILE  MOBILE-SATELLITE (space-to-Earth)		Government
74 - 75,5	FIXED  FIXED-SATELLITE (space-to-Earth)  MOBILE  BROADCASTING  BROADCASTING-SATELLITE  Space research (space-to-Earth)  S5.561*		
75,5 - 76	FIXED  FIXED-SATELLITE (space-to-Earth)  MOBILE  BROADCASTING  BROADCASTING-SATELLITE  Space research (space-to-Earth)  S5.EEE*  S5.561*	Amateur (AM) Amateur-satellite (AM-S)	Amateur national regulations CEPT Rec T/R 61-01

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
76 - 77,5	RADIO ASTRONOMY RADIOLOCATION Amateur <b>Amateur-satellite</b> Space research (space-to-Earth) S5.149*	<b>Amateur-satellite (AM-S)</b>  RTT/RTI (76-77 GHz)	Amateur national regulations CEPT Rec T/R 61-01 ERC/DEC/(92)02
77,5 - 78	AMATEUR AMATEUR-SATELLITE Radio astronomy Space research (space-to-Earth) S5.149*	Amateur-satellite (AM-S)	Amateur national regulations CEPT Rec T/R 61-01
78 - 79	RADIOLOCATION Amateur <b>Amateur-satellite</b> Radio astronomy Space research (space-to-Earth) S5.149*, S5.560	<b>Amateur-satellite (AM-S)</b>	Amateur national regulations CEPT Rec T/R 61-01
79 - 81	RADIO ASTRONOMY RADIOLOCATION Amateur <b>Amateur-satellite</b> Space research (space-to-Earth) S5.149*	<b>Amateur-satellite (AM-S)</b>	Amateur national regulations CEPT Rec T/R 61-01
81 - 84	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY Space research (space-to-Earth) S5.149*, S5.DDD*		Government

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
84 - 86	FIXED  FIXED-SATELLITE (Earth-to-space)  MOBILE  RADIO ASTRONOMY  S5.149*		
86 - 92	EARTH EXPLORATION-SATELLITE (passive)  RADIO ASTRONOMY  SPACE RESEARCH (passive)  S5.340*	ALL EMISSIONS ARE PROHIBITED IN THIS BAND	
92 - 94	FIXED  MOBILE  RADIO ASTRONOMY  RADIOLOCATION  S5.149*		
94 - 94,1	EARTH EXPLORATION-SATELLITE (active)  RADIOLOCATION  SPACE RESEARCH (active)  Radio astronomy  S5.562, S5.FFF*		
94,1 - 95	FIXED  MOBILE  RADIO ASTRONOMY  RADIOLOCATION  S5.149*		
95 - 100	FIXED  MOBILE  RADIO ASTRONOMY  RADIOLOCATION  RADIONAVIGATION  RADIONAVIGATION-SATELLITE  S5.149*, S5.554*		

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
100 - 102	EARTH EXPLORATION-SATELLITE (passive)  RADIO ASTRONOMY  SPACE RESEARCH (passive)  S5.340*, S5.341	ALL EMISSIONS ARE PROHIBITED IN THIS BAND	
102 - 105	FIXED  MOBILE  RADIO ASTRONOMY  S5.149*, S5.341		
105 - 109,5	FIXED  MOBILE  RADIO ASTRONOMY  SPACE RESEARCH (passive) S5.CCA*  S5.149*, S5.341		
109,5 - 111,8	EARTH EXPLORATION-SATELLITE (passive)  RADIO ASTRONOMY  SPACE RESEARCH (passive)  S5.340*, S5.341	ALL EMISSIONS ARE PROHIBITED IN THIS BAND	
111,8 - 114,25	FIXED  MOBILE  RADIO ASTRONOMY  SPACE RESEARCH (passive) S5.CCA*  S5.149*, S5.341		
114,25 - 116	EARTH EXPLORATION-SATELLITE (passive)  RADIO ASTRONOMY  SPACE RESEARCH (passive)  S5.340*, S5.341	ALL EMISSIONS ARE PROHIBITED IN THIS BAND	

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
116 - 119,98	EARTH EXPLORATION-SATELLITE (passive)  INTER-SATELLITE S5.XXY*  SPACE RESEARCH (passive)  S5.341		
119,98 - 120,02	EARTH EXPLORATION-SATELLITE (passive)  FIXED  INTER-SATELLITE S5.XXY*  MOBILE S5.558  SPACE RESEARCH (passive)  Amateur  S5.138, S5.341		
120,02 - 122,25	EARTH EXPLORATION-SATELLITE (passive)  INTER-SATELLITE S5.XXY*  SPACE RESEARCH (passive)     S5.138	<b>ISM – Industrial, scientific and medical applications (122-123 GHz)</b>  <b>SRD – Non-specific short range devices (122-123 GHz)</b>	CEPT/ERC/REC 70-03 Annex 1 National regulation no. 859/94 of 23/9
122,25 - 123	FIXED  INTER-SATELLITE  MOBILE S5.558*  Amateur     S5.138	<b>ISM – Industrial, scientific and medical applications (122-123 GHz)</b>  <b>SRD – Non-specific short range devices (122-123 GHz)</b>	CEPT/ERC/REC 70-03 Annex 1 National regulation no. 859/94 of 23/9

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
123 - 126	FIXED-SATELLITE (space-to-Earth)  MOBILE-SATELLITE (space-to-Earth)  RADIONAVIGATION  RADIONAVIGATION-SATELLITE  Radio astronomy  S5.554*		
126 - 130	FIXED-SATELLITE (space-to-Earth)  MOBILE-SATELLITE (space-to-Earth)  RADIONAVIGATION  RADIONAVIGATION-SATELLITE  Radio astronomy  S5.149*, S5.554*		
130-134	EARTH EXPLORATION-SATELLITE (active) S5.LLL*  FIXED  INTER-SATELLITE  MOBILE S5.558*  RADIO ASTRONOMY  S5.149*, S5.FFF*		
134 - 136	AMATEUR  AMATEUR-SATELLITE  Radio astronomy		
136 - 141	RADIO ASTRONOMY  RADIOLOCATION  Amateur  Amateur-satellite  S5.149*		
141 - 148,5	FIXED  MOBILE  RADIO ASTRONOMY  RADIOLOCATION  S5.149*		

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
148,5 - 151,5	EARTH EXPLORATION-SATELLITE (passive)  RADIO ASTRONOMY  SPACE RESEARCH (passive)  S5.340*	ALL EMISSIONS ARE PROHIBITED IN THIS BAND	
151,5 - 155,5	FIXED  MOBILE  RADIO ASTRONOMY  RADIOLOCATION  S5.149*		
155,5 - 158,5	EARTH EXPLORATION-SATELLITE (passive)  FIXED  MOBILE  RADIO ASTRONOMY  SPACE RESEARCH (passive) S5.CCA  S5.149*, S5.BBA*, S5.AAB*		
158,5 - 164	FIXED  FIXED-SATELLITE (space-to-Earth)  MOBILE  MOBILE-SATELLITE (space-to-Earth)		
164 - 167	EARTH EXPLORATION-SATELLITE (passive)  RADIO ASTRONOMY  SPACE RESEARCH (passive)  S5.340*	ALL EMISSIONS ARE PROHIBITED IN THIS BAND	
167 - 168	FIXED  FIXED-SATELLITE (space-to-Earth)  INTER-SATELLITE  MOBILE S5.558*		

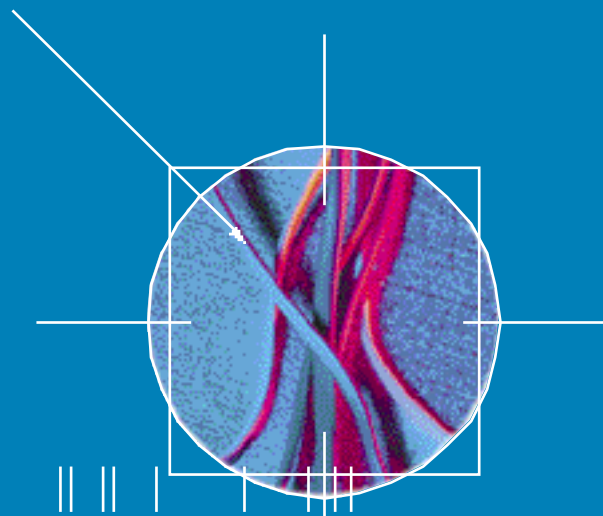
FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
168 - 170	FIXED FIXED-SATELLITE (space-to-Earth) INTER-SATELLITE MOBILE S5.558* S5.149*		
170 - 174,5	FIXED FIXED-SATELLITE (space-to-Earth) INTER-SATELLITE MOBILE S5.558* S5.149*		
174,5 - 174,8	FIXED FIXED-SATELLITE MOBILE S5.558*		
174,8 - 182	EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE S5.YYY* SPACE RESEARCH (passive)		
182 - 185	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340*	ALL EMISSIONS ARE PROHIBITED IN THIS BAND	
185 - 190	EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE S5.YYY* SPACE RESEARCH (passive)		
190 - 191,8	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) S5.340*	ALL EMISSIONS ARE PROHIBITED IN THIS BAND	



FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
191,8 - 200	FIXED INTER-SATELLITE MOBILE S5.558* MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE S5.149*, S5.341, S5.554*		
200 - 209	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340*, S5.341, S5.RRR*	ALL EMISSIONS ARE PROHIBITED IN THIS BAND	
209 - 217	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY S5.149*, S5.341		
217 - 226	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) S5.CCA* S5.149*, S5.341		
226 - 231,5	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340*	ALL EMISSIONS ARE PROHIBITED IN THIS BAND	
231,5 - 232	FIXED MOBILE Radiolocation		

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
232 - 235	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE Radiolocation		
235 - 238	EARTH EXPLORATION-SATELLITE (passive) FIXED-SATELLITE (space-to-Earth) SPACE RESEARCH (passive) S5.RRR*, S5.NNN*		
238 - 240	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE		
240 - 241	FIXED MOBILE RADIOLOCATION		
241 - 248	RADIO ASTRONOMY RADIOLOCATION Amateur <b>Amateur-satellite</b>  S5.138, S5.149*	<b>Amateur-satellite (AM-S)</b>  <b>ISM – Industrial, scientific and medical applications (244-246 GHz)</b>  <b>SRD – Non-specific short range devices (244-246 GHz)</b>	Amateur national regulations CEPT Rec T/R 61-01  CEPT/ERC/REC 70-03 Annex 1 National regulation no. 859/94 of 23/9
248 - 250	<b>AMATEUR</b> <b>AMATEUR-SATELLITE</b>  Radio astronomy S5.149*	<b>Amateur (AM)</b>  <b>Amateur-satellite (AM-S)</b>	Amateur national regulations CEPT Rec T/R 61-01

FREQUENCY BAND (GHz)	ITU ALLOCATIONS APPLICABLE TO PORTUGAL	NATIONAL USAGE	NOTES
250 - 252	EARTH EXPLORATION-SATELLITE (passive)  RADIO ASTRONOMY  SPACE RESEARCH (passive)  S5.340*, S5.RRR*	ALL EMISSIONS ARE PROHIBITED IN THIS BAND	
252 - 265	FIXED  MOBILE  MOBILE-SATELLITE (Earth-to-space)  RADIO ASTRONOMY  RADIONAVIGATION  RADIONAVIGATION-SATELLITE  S5.149*, S5.554*		
265 - 275	FIXED  FIXED-SATELLITE (Earth-to-space)  MOBILE  RADIO ASTRONOMY  S5.149*, S5.RRR*		
275 - 1000	(Not allocated) S5.565*		



Acronyms

Portuguese Frequency  
*Allocation Table*

## 4. Acronyms

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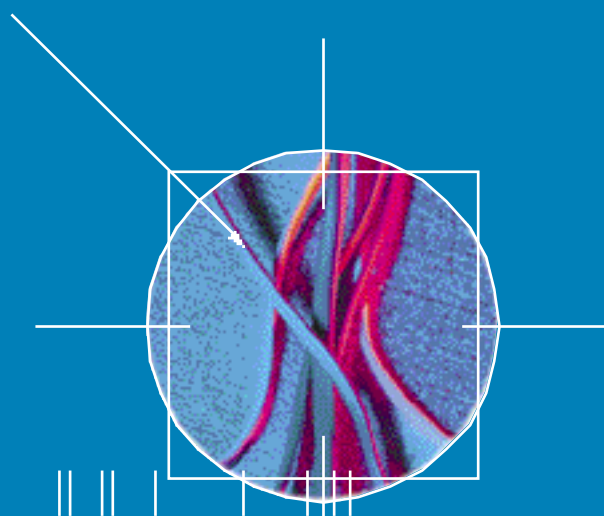
APT	- Automatic Picture Transmission
CB	- Citizen Band
CCIR	- International Radio Consultative Committee
CEPT	- Conference of European Postal and Telecommunications Administrations
CT0; CT1	- Cordless Phones
C450	- Public Analogue Land Mobile Cellular Communications
DCP	- Data Collection Platform
DCS1800	- Digital Cellular Telecommunications Systems in the 1800 MHz band
DECCA	- LF Hyperbolic Radionavigation System
DECT	- Digital European Cordless Telecommunication System
DORIS	- Doppler Orbitography and Radio-positioning Integrated by Satellite
DME	- UHF Distance Measuring Equipment
DSRR	- Digital Short Range Radio
DVB-T	- Terrestrial Digital Video Broadcasting system
ENG	- Electronic News Gathering
ERC	- European Radiocommunications Committee
ERMES	- European Radio Message System
ERO	- European Radiocommunications Office
EUTELSAT	- EUropean TELecommunications SATellite Organisation
EUTELTRACS-	EUTELsat Transport RAnging and Communication Services
GE-75	- Regional Administrative LF/MF Broadcasting Conference (Regions 1 and 3), Geneva 1975

- GE-84 - Regional Administrative Radio Conference for the planning of the VHF Sound Broadcasting (Region 1 and part of Region 3), Geneva 1984
  
- GE-85 - Regional Administrative Radio Conference for the planning of the Maritime Radionavigation Service (Radiobeacons) (Radiobeacons) in the European Maritime Area, Geneva 1985
  
- GE-85 - Regional Administrative Radio Conference for the planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1), Geneva 1985
  
- GMDSS - Global Maritime Distress and Safety System
  
- GPS - Global Positioning System
  
- GSM - Global System for Mobile Communications
  
- HDTV - High Definition TeleVision
  
- HIPERLAN - High PErformance Radio Local Area Network
  
- HRPT - High Resolution Picture Transmission
  
- ICAO - International Civil Aviation Organisation
  
- ILS - Instrument Landing System
  
- IMT-2000 - International Mobile Telecommunications - 2000
  
- INMARSAT - International MARitime SATellite Organisation
  
- INTELSAT - International TELEcommunication SATellite Organisation
  
- ISM - Industrial, Scientific and Medical applications
  
- ITU - International Telecommunication Union
  
- ITU-R - International Telecommunication Union - Radiocommunication Sector
  
- LORAN-C - Long RAnge Navigation system
  
- LPD - Low Power Devices
  
- LRPT - Low Resolution Picture Transmission

METEOSAT	- METEOrological SATellite
MLS	- Microwave Landing System
MVDS	- Multipoint Video Distribution System
NAVTEX	- International NAVTEX System
NDB	- Non-Directional radio Beacon
OMEGA	- VLF Hyperbolic Radionavigation System
POSAT 1	- POrtuguese SATellite 1
RTI	- Road Transport Information Systems
RTT	- Road Transport Telematic systems
SCP	- Public National Radio Paging
SCPP	- Private Radio Paging
SMM	- Maritime Mobile Networks
SMRP	- National Trunking Mobile System
SMT	- Private Mobile Radio
SNG	- Satellite News Gathering
SRD	- Short Range Device
SSR	- Secondary Surveillance Radar
ST-61	- European VHF/UHF Broadcasting Conference, Stockholm 1961
STL	- Studio Transmitter Links
TACAN	- TACTical Air Navigation System
TCR	- Tracking, Control and Ranging
T-DAB	- Terrestrial Digital Audio Broadcasting

TFTS	- Terrestrial Flight Telephone System
TRANSIT	- Radionavigation-Satellite System
VOR	- VHF Omnidirectional Radio range
VSAT	- Very Small Aperture Terminal
WARC-92	- World Administrative Radiocommunications Conference - Torremolinos, 1992
WRC-95	- World Radiocommunications Conference - Genebra, 1995
WRC-97	- World Radiocommunications Conference - Genebra, 1997
WRC-2000	- World Radiocommunications Conference - Istambul, 2000
WBDTS	- Wide Band Data Transmission System





Relevant documents  
from CEPT, ITU and EU

# Portuguese Frequency *Allocation Table*

## 5. Relevant documents from CEPT, ITU and EU

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### 5.1 CEPT Documents

#### *Recommendations*

- CEPT Rec. T/R 12-01 - Harmonised radio frequency channel arrangements for analogue and digital terrestrial fixed systems operating in the band 37-39,5 GHz.
- CEPT Rec. T/R 13-01 - Preferred Channel Arrangements for Fixed Services in the Range 1-3 GHz.
- CEPT Rec. T/R 13-02 - Preferred Channel Arrangements for Fixed Services in the Range 22-29,5 GHz.
- CEPT Rec. T/R 20-08 - Frequency planning and frequency coordination for the GSM system.
- CEPT Rec. T/R 20-09 - PR 27 radio equipment intended to provide short range voice radiocommunication in the 27 MHz band.
- CEPT Rec. T/R 22-02 - Frequency band to be designated for the European digital cordless telecommunication system (DECT).
- CEPT Rec. T/R 22-06 - Harmonised radio frequency bands for High Performance Radio Local Area Networks (HIPERLANs) in the 5 GHz and 17 GHz frequency range.
- CEPT Rec. T/R 22-07 - Frequency bands, planning and coordination for systems using the DCS 1800 standards.
- CEPT Rec. T/R 24-03 - Radio characteristics of cordless telephones.
- CEPT Rec. T/R 25-07 - Frequency coordination for the European Radio Message System (ERMES).
- CEPT Rec. T/R 42-01 - Designation of frequency bands for the pan-European terrestrial flight telephone system (TFTS).
- CEPT Rec. T/R 52-01 - Designation of an harmonised frequency band for multipoint video distribution systems in Europe.
- CEPT Rec. T/R 52-02 - Introduction of terrestrial digital audio broadcasting (T-DAB).
- CEPT Rec. T/R 61-01 - CEPT Radio Amateur Licence.
- CEPT Rec. T/R 75-02 - Use of frequencies in the band 862-960 MHz by the mobile except aeronautical mobile service.
- CEPT/ERC/REC 12-07 - Harmonised radio frequency channel arrangements for digital terrestrial fixed systems operating in the band 15.23 GHz to 15.35 GHz
- CEPT/ERC/REC 12-08 - Harmonised radio frequency channel arrangements and block allocations for low, medium and high capacity systems in the band 3600 MHz to 4200 MHz

CEPT/ERC/REC 12-09 - Radio frequency channel arrangement for fixed service systems operating in the band 57-59 GHz which do not require frequency planning.

CEPT/ERC/REC 13-03 - The use of the band 14.0-14.5 GHz for Very Small Aperture Terminals (VSAT) and Satellite News Gathering (SNG)

CEPT/ERC/REC 14-03 - Harmonised radio frequency channel arrangements for low and medium capacity systems in the band 3400 MHz to 3600 MHz.

CEPT/ERC/REC 70-03 - Relating to the use of Short Range Devices (SRD)

### **Decisions**

ERC/DEC/(92)01 - ERC Decision of 22 October 1992 on the frequency bands to be designated for the coordinated introduction of the Terrestrial Flight Telecommunications System.

ERC/DEC/(92)02 - ERC Decision of 22 October 1992 on the frequency bands to be designated for the coordinated introduction of the Road Transport Telematic Systems.

ERC/DEC/(94)01 - ERC Decision of 24 October 1994 on the frequency bands to be designated for the coordinated introduction of the GSM Digital pan-European communications System.

ERC/DEC/(94)02 - ERC Decision of 24 October 1994 on the frequency band to be designated for the coordinated introduction of the European Radio Messaging System (ERMES).

ERC/DEC/(94)03 - ERC Decision of 24 October 1994 on the frequency band to be designated for the coordinated introduction of the Digital European Cordless Telecommunications System.

ERC/DEC/(95)03 - ERC Decision of 1 December 1995 on the frequency bands to be designated for the introduction of DCS 1800.

ERC/DEC/(96)01 - ERC Decision of 7 March 1996 on the harmonised frequency band to be designated for the introduction of the Digital Land Mobile System for Emergency Services.

ERC/DEC/(96)03 - ERC Decision of 7 March 1996 on the harmonised frequency band to be designated for the introduction of High Performance Radio Local Area Networks (HIPERLANs).

ERC/DEC/(96)04 - ERC Decision of 7 March 1996 on the frequency bands for the introduction of the Trans European Trunked Radio System (TETRA).

ERC/DEC/(97)01 - ERC Decision of 21 March 1997 on the publication of national tables of frequency allocations.

- ERC/DEC/(97)02 - ERC Decision of 21 March 1997 on the extended frequency bands to be used for the GSM Digital Pan-European Communication System.
- ERC/DEC/(97)03 - ERC Decision of 30 June 1997 on the Harmonised Use of Spectrum for Satellite Personal Communication Services (S-PCS) operating within the bands 1610-1626.5 MHz, 2483.5-2500 MHz, 1980-2010 MHz and 2170-2200 MHz.
- ERC/DEC/(97)04 - ERC Decision of 30 June 1997 on transitional arrangements for the Fixed Service and the Mobile-Satellite Service in the bands 1980-2010 MHz and 2170-2200 MHz in order to facilitate the harmonised introduction and development of Satellite Personal Communications Services.
- ERC/DEC/(97)06 - ERC Decision of 30 June 1997 on the harmonised frequency band to be designated for Social Alarm Systems.
- ERC/DEC/(97)07 - ERC Decision of 30 June 1997 on the frequency bands for the introduction of the Universal Mobile Telecommunications System (UMTS).
- ERC/DEC/(98)25 - ERC Decision of 23 November 1998 on the harmonised frequency band to be designated for PMR 446.
- ERC/DEC/(99)15 - ERC Decision of 1 June 1999 on the designation of the harmonised frequency band 40.5 to 43.5 GHz for the introduction of Multimedia Wireless Systems (MWS) including Multipoint Video Distribution Systems (MVDS).
- ERC/DEC/(99)25 - ERC Decision of 29 November 1999 on the harmonized utilisation of spectrum for terrestrial Universal Mobile Telecommunications System (UMTS) operating within the bands 1900-1980 MHz, 2010-2025 MHz and 2110-2170 MHz.
- ERC/DEC/(00)01 - ERC Decision of 28 March 2000 extending ERC/DEC/(97)07 on the frequency bands for the introduction of terrestrial Universal Mobile Telecommunications System (UMTS).

## 5.2 ITU Documents

### Final Acts of WRC-2000

#### Recommendations

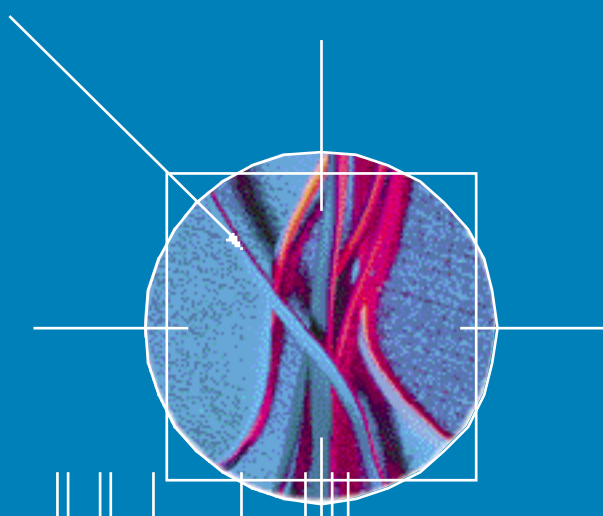
- Rec. ITU-R F.283-5 (06/90) - Radio-frequency channel arrangements for low and medium capacity analogue or digital radio-relay systems operating in the 2 GHz band.
- Rec. ITU-R F.382-7 (09/97) - Radio-frequency channel arrangements for radio-relay systems operating in the 2 and 4 GHz bands.
- Rec. ITU-R F.383-5 (03/92) - Radio-frequency channel arrangements for high capacity radio-relay systems operating in the lower 6 GHz band.

- Rec. ITU-R F.384-6 (10/95) - Radio-frequency channel arrangements for medium and high capacity analogue or digital radio-relay systems operating in the upper 6 GHz band.
- Rec. ITU-R F.385-6 (11/93) - Radio-frequency channel arrangements for radio-relay systems operating in the 7 GHz band.
- Rec. ITU-R F.386-5 (09/97) - Radio-frequency channel arrangements for radio-relay systems operating in the 8 GHz band.
- Rec. ITU-R F.387-7 (10/95) - Radio-frequency channel arrangements for radio-relay systems operating in the 11 GHz band.
- Rec. ITU-R F.497-5 (10/95) - Radio-frequency channel arrangements for radio-relay systems operating in the 13 GHz frequency band.
- Rec. ITU-R F.595-4 (10/95) - Radio-frequency channel arrangements for radio-relay systems operating in the 18 GHz frequency band.
- Rec. ITU-R F.637-2 (11/93) - Radio-frequency channel arrangements for radio-relay systems operating in the 23 GHz band.
- Rec. ITU-R F.746-1 (1994) - Radio-frequency channel arrangements for radio-relay systems.

### 5.3 EU Documents

#### *Directives*

- Dir. 87/372/EEC - Council Directive of 25 June 1987 on the frequency bands to be reserved for the coordinated introduction of public pan-European cellular digital land-based mobile communications in the European Community.
- Dir. 90/544/EEC - Council Directive of 9 October 1990 on the frequency bands designated for the coordinated introduction of pan-European land-based public radio paging in the Community.
- Dir. 91/287/EEC - Council Directive of 3 June 1991 on the frequency band to be designated for the coordinated introduction of digital European cordless telecommunications (DECT) into the Community.



## ANNEX

List of footnotes to Article S5  
relevant to the decisions taken  
by WRC-2000

Portuguese Frequency  
*Allocation Table*

## I. Footnotes added by WRC-2000

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FOOTNOTE REFERENCE	STATUS AFTER WRC-2000	APPLICABLE FREQUENCY BANDS	SCOPE OF APPLICATION
S5.XXX	ADD	806-960 MHz	IMT-2000
S5.328A	ADD	1164-1215 MHz	AddAlloc
S5.329A	ADD	1215-1300 MHz 1559-1610 MHz	Cond/Rest
S5.335A	ADD	1260-1300 MHz	Cond/Rest
S5.337A	ADD	1300-1350 MHz	Cond/Rest
S5.SSS	ADD	1525-1544 MHz 1545-1559 MHz 1610-1626,5 MHz 1626.5-1645.5 MHz 1646.5-1660.5 MHz 1980-2010 MHz 2170-2200 MHz 2483.5-2500 MHz 2500-2520 MHz 2670-2690 MHz	IMT-2000
S5.AAA	ADD	1710-1885 MHz 2500-2690 MHz	IMT-2000
S5.BBB	ADD	1885-1980 MHz 2010-2025 MHz 2110-2170 MHz	IMT-2000 HAPS
S5.[XXX1]	ADD	2630-2655 MHz	Cond/Rest
S5.[XXX2]	ADD	2630-2655 MHz	Cond/Rest
S5.[XXX3]	ADD	2630-2655 MHz	Cond/Rest
S5.444B	ADD	5000-5010 MHz	AddAlloc
S5.444C	ADD	5010-5030 MHz	AddAlloc
S5.522A	ADD	18.6-18.8 GHz	Cond/Rest
S5.522B	ADD	18.6-18.8 GHz	Cond/Rest
S5.NGSO	ADD	37.5-40 GHz 42-42.5 GHz	Cond/Rest
S5.RAS	ADD	41.5-42.5 GHz	Cond/Rest
S5.XXZ	ADD	55.78-56.26 GHz	Cond/Rest
S5.EEE	ADD	75.5-76 GHz	AddAlloc
S5.DDD	ADD	81-81.5 GHz	AddAlloc
S5.FFF	ADD	94-94.1 GHz 130-134 GHz	Cond/Rest
S5.CCA	ADD	105-109.5 GHz 111.8-114.25 GHz 155.5-158.5 GHz 217-226 GHz	Cond/Rest
S5.XXY	ADD	116-122.25 GHz	Cond/Rest

FOOTNOTE REFERENCE	STATUS AFTER WRC-2000	APPLICABLE FREQUENCY BANDS	SCOPE OF APPLICATION
S5.LLL	ADD	133.5-134 GHz	Cond/Rest
S5.AAB	ADD	155.5-158.5 GHz	Cond/Rest
S5.BBA	ADD	155.5-158.5 GHz	Cond/Rest
S5.YYY	ADD	174.8-182 GHz 185-190 GHz	Cond/Rest
S5.RRR	ADD	200-209 GHz 235-238 GHz 250-252 GHz 265-275 GHz	Cond/Rest
S5.NNN	ADD	237.9-238 GHz	Cond/Rest

**LEGEND:**

- AddAlloc - Additional allocation;
- Cond/Rest - Condition or restriction of use;
- DifCatSer - Different category of service.

**REMARKS:**

- Footnotes added by WRC-2000 do not follow ordinal numbering;
- The text of the footnotes can be found on the Final Acts of WRC-2000.



II. Footnotes modified by WRC-2000

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FOOTNOTE REFERENCE	STATUS AFTER WRC-2000	APPLICABLE FREQUENCY BANDS	SCOPE OF APPLICATION
S5.149	MOD	See Final Acts (WRC-2000)	Cond/Rest
S5.162A	MOD	46-68 MHz	AddAlloc
S5.221	MOD	148-149.9 MHz	Cond/Rest
S5.296	MOD	470-790 MHz	AddAlloc
S5.316	MOD	790-830 MHz 830-862 MHz	AddAlloc
S5.328	MOD	960-1215 MHz	Cond/Rest
S5.329	MOD	1215-1300 MHz	Cond/Rest
S5.331	MOD	1215-1300 MHz	AddAlloc
S5.332	MOD	1215-1260 MHz	Cond/Rest
S5.340	MOD	See Final Acts (WRC-2000)	Cond/Rest
S5.347	MOD	1452-1492 MHz	DifCatSer
S5.353A	MOD	1530-1544 MHz 1626.5-1645.5 MHz	Cond/Rest
S5.357A	MOD	1545-1555 MHz 1646.5-1656.5 MHz	Cond/Rest
S5.385	MOD	1718.8-1722.2 MHz	AddAlloc
S5.388	MOD	1885-2025 MHz 2110-2200	IMT-2000
S5.441	MOD	4500-4800 MHz 6725-7025 MHz 10.7-10.95 GHz 11.2-11.45 GHz 12.75-13.25 GHz	Cond/Rest
S5.444	MOD	5030-5150 MHz	Cond/Rest
S5.447	MOD	5150-5250 MHz	AddAlloc
S5.484A	MOD	12.5-12.75 GHz 13.75-14.5 GHz 178-18.6 GHz 19.7-20.2 GHz 27.5-28.6 GHz 29.5-30 GHz	Cond/Rest
S5.487	MOD	11.7-12.5 GHz	Cond/Rest
S5.487A	MOD	11.7-12.5 GHz	AddAlloc
S5.492	MOD	11.7-12.5 GHz	Cond/Rest
S5.495	MOD	12.5-12.75 GHz	AddAlloc
S5.502	MOD	13.75-14 GHz	Cond/Rest
S5.503	MOD	13.75-14 GHz	Cond/Rest

FOOTNOTE REFERENCE	STATUS AFTER WRC-2000	APPLICABLE FREQUENCY BANDS	SCOPE OF APPLICATION
S5.508	MOD	14.25-14.3 GHz	AddAlloc
S5.511A	MOD	14.53-15.63 GHz	Cond/Rest
S5.516	MOD	17.3 - 18.1 GHz	Cond/Rest
S5.520	MOD	18.1-18.4 GHz	Cond/Rest
S5.536A	MOD	25.5-27 GHz	Cond/Rest
S5.541A	MOD	29.1-29.5 GHz	Cond/Rest
S5.547	MOD	31.8-33.4 GHz 37-40 GHz 40.5-43.5 GHz 51.4-52.6 GHz 55.78-59 GHz 64-66 GHz	Cond/Rest
S5.547A	MOD	31.8-33.4 GHz	Cond/Rest
S5.553	MOD	43.5-47 GHz 66-71 GHz	Cond/Rest
S5.554	MOD	43.5-47 GHz 66-71 GHz 95-100 GHz 123-130 GHz 191.8-200 GHz 252-265 GHz	Cond/Rest
S5.555	MOD	48.94-49.04 GHz	AddAlloc
S5.556	MOD	51.4-54.25 GHz 58.2-59 GHz 64-65 GHz	Cond/Rest
S5.558	MOD	55.78-58.2 GHz 59-64 GHz 66-71 GHz 122.25-123 GHz 130-134 GHz 167-174.8 GHz 191.8-200 GHz	Cond/Rest
S5.559	MOD	59-64 GHz	Cond/Rest
S5.561	MOD	74-76 GHz	Cond/Rest
S5.565	MOD	275-1000 GHz	Cond/Rest

**LEGEND:**

- AddAlloc - Additional allocation;
- Cond/Rest - Condition or restriction of use;
- DifCatSer - Different category of service.

**REMARKS:**

- The text of the footnotes can be found on the Final Acts of **WRC-2000**.

**III. Footnotes suppressed by WRC-2000**

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(that were included on the previous edition of  
the Portuguese Frequency Allocation Table)

FOOTNOTE REFERENCE	STATUS AFTER WRC-2000
S5.81	SUP
S5.120	SUP
S5.522	SUP
S5.523	SUP