



5 bands amplifier for mobile signals

art. 39-520D T-AMP 5 BANDE 15dBm

Amplifier ideal for the amplification of the mobile phone signal in band 20 (800 MHz), in band 8 (900 MHz), in band 3 (1800 MHz), in band 1 (2100 MHz) and in band 7 (2600 MHz) inside public or private buildings (e.g. houses, restaurants, offices, shops, etc.), where signals are weak or absent, provided that a good quality signal is received outside.

Ideal for amplifying the signal in areas up to 300-500 m².

If you want to spread the signal inside a very large building, you can connect to the amplifier a splitter with a number of outputs equal to the number of indoor antennas that you need to instal to reach the desired signal coverage.



Code	39-520D	
Item	T-AMP 5 BANDE 15dBm	
Bands name	Band 20 (800 MHz) Band 8 (900 MHz) Band 3 (1800 MHz) Band 1 (2100 MHz) Band 7 (2600 MHz)	
Band 20 (800 MHz) frequencies	MHz	Uplink: 832 ÷ 862 Downlink: 791 ÷ 821
Band 8 (900 MHz) frequencies	MHz	Uplink: 880 ÷ 915 Downlink: 925 ÷ 960
Band 3 (1800 MHz) frequencies	MHz	Uplink: 1715 ÷ 1785 Downlink: 1810 ÷ 1880
Band 1 (2100 MHz) frequencies	MHz	Uplink: 1920 ÷ 1980 Downlink: 2110 ÷ 2170
Band 7 (2600 MHz) frequencies	MHz	Uplink: 2510 ÷ 2570 Downlink: 2630 ÷ 2690
Bandwidth	Band 8: 30 MHz Band 8: 35 MHz Band 3: 70 MHz Band 1: 60 MHz Band 7: 60 MHz	
Max gain	dB	Uplink: ≥60 / Downlink: ≥65
Max output power	dBm	Uplink: ≥12 / Downlink: ≥15
Coverage area	m ²	300 ÷ 500
AGC control range	dB	≥25
Manual gain adjustment	dB	31 (1 dB alla volta)
Max input power	dBm	-25
Impedance	Ω	50
Noise figure	dB	≤6
Group delay time	μs	≤1
VSWR	dB	≤2
Spurious emissions 9 kHz - 1 GHz		≤-36 dBm
Spurious emissions 1 GHz - 12.75 GHz		≤-30 dBm
Consumption	W	8
Connectors	female N type	
Operating temperature	°C	-10 ÷ +50
Environmental conditions	IP40	
Wall fixing accessory	included	
Dimensions (LxWxH)	mm	335x170x65
Weight	Kg	5,00
Packaging dimensions (LxWxH)	mm	390x280x120
Packaging weight	Kg	5,5
POWER SUPPLY		
Remote power supply	Vdc	10
Max power consumption	A	10
AC main tension	100-230 V~ 50/60Hz	
Isolation class	II	
Dimensions (LxWxH)	mm	130x50x35
Weight	Kg	0,20

* The coverage area is an indicative data that changes according to various factors and is different in each system.

In order to obtain the maximum output power of the amplifier (+15 dBm = 122 dBμV), the input signal to the amplifier must be at least -50 dBm (57 dBμV).

Characteristics

- Max gain 65 dB with Automatic Gain Adjustment (AGC)
- Detection functions for self-oscillation and overpower
- LED indicators for status, power, alarms
- Compliant to:
2014/53/UE/RED; 2011/65/UE (RoHS)
EN 301 489-50 V2.2.1; EN 301 489-1 V2.2.3;
EN 301 908-11 V11.1.2; EN 301 908-15 V.11.1.2;
EN 303 609 V12.5.1; EN 50385:2017
EN 62368-1: 2014 + A11:2017

Example of application

