



5 bands amplifier for mobile signals

art. 39-520A T-AMP 5 BANDE 20dBm

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 500÷2000 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	39-520A	
Item	T-AMP 5 BANDE 20dBm	
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: ≥65 / Downlink: ≥70
Max output power	dBm	Uplink: ≥15 / Downlink: ≥20
Coverage area	m ²	500 ÷ 2000
AGC control range	dB	≥25
Manual gain adjustment	dB	31 (1 dB per time)
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		
Power supply	Vdc	6,5
Max power consumption	A	9,2
AC main tension		200-240 V~ 50/60Hz
Isolation class		II
Dimensions (LxWxH)	mm	120x50x30
Weight	Kg	0,225

* 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 (+20 dBm = 127 dBμV), the input signal to the amplifier must be at least -50 dBm (57 dBμV).

Characteristics

- Max gain 70 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

