



## 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 m<sup>2</sup>.

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 <sup>2</sup>	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
<b>POWER SUPPLY</b>		
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 (+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

