



Dual band amplifier for mobile signals

art. 39-516
T-AMP 900/2100 27dBm

Amplifier ideal for the amplification of the mobile phone signal in band 8 (900 MHz) and in band 1 (2100 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 3000÷4000 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	39-516	
Item	T-AMP 900/2100 27dBm	
Bands name	Banda 8	Banda 1
Bands	MHz	900 MHz 2100 MHz
Uplink frequencies	MHz	880 ÷ 915 1920 ÷ 1980
Downlink frequencies	MHz	925 ÷ 960 2110 ÷ 2170
Bandwidth	MHz	35 60
Max gain	dB	Uplink: ≥75 / Downlink: ≥80
Max output power	dBm	Uplink: ≥20 / Downlink: ≥27
Coverage area	m ²	3000 + 4000
AGC control range	dB	≥25
Manual gain adjustment	dB	31 (1 dB per time)
Max input power	dBm	-29
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	12
Connectors		female N type
Operating temperature	°C	-10 ÷ +50
Environmental conditions		IP40
Wall fixing accessory		included
Dimensions (LxWxH)	mm	335x170x65
Weight	Kg	5,0
Packaging dimensions (LxWxH)	mm	390x280x120
Packaging weight	Kg	5,0
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 (+27 dBm = 134 dBμV), the input signal to the amplifier must be at least -53 dBm (54 dBμV).

Characteristics

- Max gain 80 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 V2.2.1;
EN 301 908-11 V11.1.2; EN 301 908-11 V11.1.1;
EN 301 908-15 V11.1.2; EN 303 609 V12.5.1;
EN 60950-1:2006+A11:2009+A1:2010+A12:
2011+A2:2013; EN 50385:2017

Example of application

