



Single-band amplifier for mobile signals

art. 39-514C
T-AMP 800/2100 20dBm

Amplifier ideal for the amplification of the mobile phone signal in band 20 (800 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 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	39-514C	
Item	T-AMP 800/2100 20dBm	
Bands name	Band 20	Band 1
Bands	MHz	800 MHz 2100 MHz
Uplink frequencies	MHz	832 ÷ 862 1920 ÷ 1980
Downlink frequencies	MHz	791 ÷ 821 2110 ÷ 2170
Bandwidth	MHz	30 60
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	12
Connectors	female N type	
Operating temperature	°C	-10 ÷ +50
Environmental conditions	IP40	
Wall fixing accessory	included	
Dimensions (LxWxH)	mm	250x170x65
Weight	Kg	4,0
Packaging dimensions (LxWxH)	mm	300x285x100
Packaging weight	Kg	4,0
POWER SUPPLY		
Remote power supply	Vdc	9
Max power consumption	A	5
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 V2.2.1;
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

