



Dual band amplifier for mobile signals

art. 39-516B
T-AMP 800/1800 27dBm

Amplifier ideal for the amplification of the mobile phone signal in band 20 (800 MHz) and in band 3 (1800 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	39-516B	
Item	T-AMP 800/1800 27dBm	
Bands name	Band 20	Band 3
Bands	MHz	800 MHz 1800 MHz
Uplink frequencies	MHz	832 ÷ 862 1715 ÷ 1785
Downlink frequencies	MHz	791 ÷ 821 1810 ÷ 1880
Bandwidth	MHz	30 75
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

