



## Single-band amplifier for mobile signals

**art. 39-514G**  
**T-AMP 1800/2100 20dBm**

Amplifier ideal for the amplification of the mobile phone signal in band 3 (1800 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 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	39-514G	
Item	T-AMP 1800/2100 20dBm	
Bands name	Band 3	Band 1
Bands	MHz	1800 MHz 2100 MHz
Uplink frequencies	MHz	1715 ÷ 1785 1920 ÷ 1980
Downlink frequencies	MHz	1810 ÷ 1880 2110 ÷ 2170
Bandwidth	MHz	75 60
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	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
<b>POWER SUPPLY</b>		
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

