Data sheet

OFFEL

Single-band amplifier

for mobile signals

art. 39-495
T-AMP 800 20dBm

MOBILE
230 V~
INDOOR
HIGH SHIELDING
REG.
CONN. N
CE

Amplifier ideal for the amplification of the mobile phone signal in band 20 (800 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		39-495
Item		**T-AMP 800 20dBm**
Band name		20
Band	MHz	800 MHz
Uplink frequencies	MHz	832 ÷ 862
Downlink frequencies	MHz	791 ÷ 821
Bandwidth	MHz	30
Max gain	dB	Uplink: ≥65 / Downlink: ≥70
Max output power	dBm	Uplink: ≥15 / Downlink: ≥20
Coverage area	m²	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	128x170x65
Weight	Kg	2,2
Packaging dimensions (LxWxH)	mm	440x310x260
Packaging weight	Kg	2,9
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

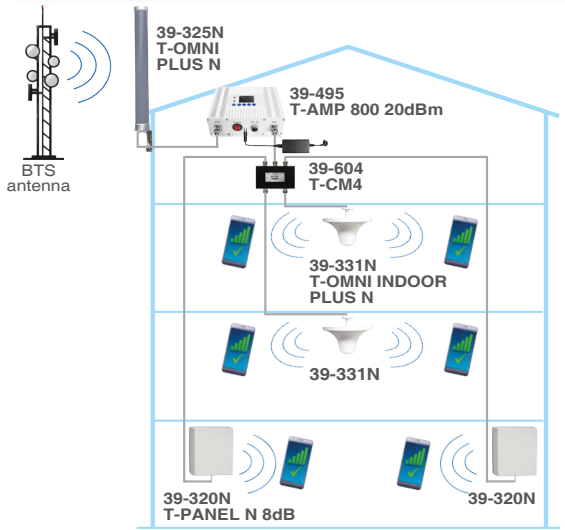
* The coverage area is an indicative data that changes according to various factors and is different in each system.

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 V2.1.1; EN 301 489-50 V2.3.1; EN 301 489-1 V2.1.1; EN 301 489-1 V2.2.3; EN 301 908-11 V11.1.2; EN 301 908-1 V.13.1.1; EN 301 908-15 V15.1.1; EN 303 609 V12.5.1; EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013; EN 62368-1:2014+A11:2017; EN 50385:2017; EN 62311:2020

Example of application



Offel s.r.l. Via Lato di Mezzo, 32 48022 Lugo RA - Italy Tel. +39 0545/22542 offel@offel.it **www.offel.it**