



## Dual band kit for mobile signals

### art. 39-208K T-KIT 1800/2600

Kit equipped with an amplifier ideal for the amplification of the mobile phone signal in band 3 (1800 MHz) and in band 7 (2600 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 250 m<sup>2</sup>.

The kit includes:

- no.1 outdoor antenna
- no.1 amplifier
- no.1 10 mt. coaxial cable with an SMA connector and a N connector
- no.2 adapters N male/SMA female
- no.1 indoor whip antenna
- no.1 switching power supply
- no.1 fixing accessories kit



| Code                                 | 39-208K                        |                             |
|--------------------------------------|--------------------------------|-----------------------------|
| Item                                 | T-KIT 1800/2600                |                             |
| OUTDOOR ANTENNA                      |                                |                             |
| Type                                 | directional, logarithmic shape |                             |
| Frequencies                          | MHz                            | 880+960 + 1710+2700         |
| Gain                                 | dB                             | 12                          |
| Connector                            | female N type                  |                             |
| Fixing clamp for masts Ø             | mm                             | 25÷42                       |
| INDOOR ANTENNA                       |                                |                             |
| Type                                 | omnidirectional, whip          |                             |
| Frequencies                          | MHz                            | 900+2500                    |
| Connector                            | male SMA type                  |                             |
| AMPLIFIER                            |                                |                             |
| Bands name                           | Band 3                         | Band 7                      |
| Bands                                | MHz                            | 1800 MHz 2600 MHz           |
| Uplink frequencies                   | MHz                            | 1715 ÷ 1785 2510 ÷ 2570     |
| Downlink frequencies                 | MHz                            | 1810 ÷ 1880 2630 ÷ 2690     |
| Bandwidth                            | MHz                            | 75 60                       |
| Max gain                             | dB                             | Uplink: ≥65 / Downlink: ≥70 |
| Max output power                     | dBm                            | Uplink: ≥15 / Downlink: ≥20 |
| Coverage area                        | m²                             | 250                         |
| 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                  | Vcc                            | 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                        |
| COAXIAL CABLE                        |                                |                             |
| Length                               | mt.                            | 10                          |
| Diameter                             | Ø                              | 6,1                         |
| Connectors                           | male SMA type and male N type  |                             |
| Impedance                            | Ω                              | 50                          |

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).

#### Amplifier 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

