

UPC0021B

This device contains a microcontroller programmed in C language that enables automatic functioning of the system.

The L Band input is 950-1700 MHz and the Ku Band output is 13.75-14.50 GHz. The case used is IP65 waterproof with standard interface for mechanical mount.

UP-CONVERTER
L-Ku Band Outdoor

Model Type: **UPC0021B**



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UP-CONVERTER L-Ku Band Outdoor

Mechanical Specification

| | |
|--------------------------|----------------------------|
| Mechanical construction: | IP65 215x100x250mm (LxHxP) |
| Weight: | 2 Kg |
| Temperature: | -40°C to 55°C operating |
| Relative humidity: | 5 to 100% |
| MTBF | 150000 h |

General Specification

| | |
|----------------------------|-------------------------------------------|
| L Band input impedance | 50 Ohm @ N connector |
| Ku Band output impedance | 50 Ohm @ N connector |
| Reference signal frequency | 10MHz |
| Reference signal level | -5 to +10dBm |
| Primary power requirements | 18 to 24V DC |
| Absorbed current | <1A |
| Input signal TX | L Band through N 50 Ohm female connector |
| Output signal TX | Ku Band through N 50 Ohm female connector |

Technical Specification

| | |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Alarm interface (Power ON) | Dry contact N.O. and N.C. through 6poles MIL female connector |
| Alarm interface (PLL) | Dry contact N.O. and N.C. through 6poles MIL female connector |
| Input frequency | 950 to 1700MHz |
| Output frequency | 13750 to 14500MHz |
| Frequency stability | ±5 E-9ppm/day |
| Intermodulation IM3 | >30dBc |
| Noise figure | <20dBm |
| Group delay | <10nsec |
| L.O. | 12800MHz |
| Input VSWR | >15dB |
| Output VSWR | >15dB |
| Input impedance | 50 Ohm |
| Output impedance | 50 Ohm |
| Output power | >15dBm (@1dB compression point) |
| Gain | >25 |
| Gain flatness full Band | ±2dB max |
| Gain flatness 40MHz | ±0.2dB max |
| Gain stability | ±0.5dB/day |
| Compression point | >15dBm @ 14125MHz |
| Phase noise 12800MHz | @100Hz -65dBc/Hz max @1KHz -75dBc/Hz max @10KHz -90dBc/Hz max @100KHz -110dBc/Hz max @1MHz -120dBc/Hz max |
| .. | |
| RF Inhibit attenuation | >30dB |
| L.O. leakage | <-55dBm |
| Spurious correlated | >50dBc |
| Spurious no-correlated | <-70dBm |

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Antech Spa
San Giovanni La Punta
Catania (Italy)
Tel/fax: +39 095 741.74.00
+39 095 751.37.99
www.antech.it
info@antech.it

ETNATEL: www.etnatel.it
info@etnatel.it

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