

**C-BAND TEST LOOP TRANSLATOR**

- **LOW PHASE NOISE**
- **FINE STEP**
- **OUTDOOR APPLICATION**
- **HIGH FREQUENCY STABILITY**

This high performance down converter is intended for use in professional applications in C-band such as satellite earth stations. BMCD36 unit is suitable for outdoor C-band transmission tests.

Electrical characteristics:

Input Frequency	5850 – 6450 MHz
Output Frequency	3625 – 4200 MHz
Local Frequency	2210 – 2240 MHz
Local Step Size	1 kHz
Typical phase noise	-85dBc/Hz typ., -82 dBc/Hz max., @ 100 Hz
	-95dBc/Hz typ., -92 dBc/Hz max. @ 1 kHz
	-100dBc/Hz typ., -97 dBc/Hz max. @ 10 kHz
	-120 dBc/Hz typ., -115dBc/Hz max. @ 100 kHz
	-145 dBc/Hz typ., -140dBc/Hz max. @ 1 MHz
Input Return Loss	22dB typ., 20dB min.
Output Return Loss	22dB typ., 20dB min.
Conversion Loss	10dB typ., 13 dB max.
Amplitude Response	within ± 0.4 dB over any 40 MHz within ± 1.0 dB over O/P frequency band
Frequency Stability	within $\pm 1 \times 10^{-6}$ (-30°C to 60°C)
Level Control	31 dB in 1dB step
Intermodulation Distortion	with two inband cw. signals at -13 dBm / IP3 \leq -50dBc
Isolation	90dB typ., 85dB min.
Output Mute	60dB min.
External Reference Configuration	5 MHz source at 0 ± 6 dBm automatic change-over from internal to external
Remote Control	RS422 remote interface
Power Supply	230 \pm 10 V AC / 50 \pm 3 Hz, 5W typ.
Operating temperature range	-20 to 60°C
RF input/output connectors	N-female
External Reference connector	N-female
Local monitor connector	SMA female
Outline dimension	180 x 120 x 56 mm
Construction	Outdoor, Milled Al, IP67 rated, Painted

Specifications are subject to change without notice.

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Outline dimensions (mm):

