

**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. BMCD28 unit is suitable for outdoor C-band transmission tests.

**Electrical characteristics:**

I/P Frequency	5850 – 6450 MHz
O/P Frequency	3625 – 4200 MHz
LO Frequency	2210 – 2240 MHz
LO Step Size	1 kHz
Typical phase noise	-85dBc/Hz typ., -75 dBc/Hz max., @ 100 Hz
	-93dBc/Hz typ., -90 dBc max. @ 1 kHz
	-103dBc/Hz typ., -100 dBc/Hz max. @ 10 kHz
	-120 dBc/Hz typ., -110dBc/Hz max. @ 100 kHz
	-140 dBc/Hz typ, -130dBc/Hz max. @ 1 MHz
I/P Return Loss	$\geq 20$
O/P Return Loss	$\geq 20$
Conversion Loss	13dB typ., 15 dB max.
Amplitude Response	within $\pm 0.5$ dB over any 40 MHz within $\pm 1.5$ 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 Distorsion	with two inband I/P signals at -15 dBm / IP3 $\leq$ -50dBc
I/P and O/P isolation	80dB typ., 65dB max.
5 MHz Reference Configuration	automatic reference selection from internal to external 5 MHz source at $0 \pm 3$ dBm
Remote Control	RS232 remote interface
Power Supply	90 – 250 V AC / 47 – 63 Hz
Operating temperature range	0 to 50°C
RF I/P and O/P connectors	N-female
External Reference I/P connector	N-female
LO monitor connector	SMA female
Outline dimension	180 x 120 x 56 mm
Construction	Milled Al, IP67 rated

Specifications are subject to change without notice.

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### Outline dimensions (mm):

