
DUAL C BAND TEST LOOP TRANSLATOR

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

This high performance dual test loop translator / down converter is intended for use in professional applications in C band such as satellite earth stations. BMCD90 unit is suitable for outdoor C band transmission tests.


Electrical characteristics:

Input Frequency 1.	5850 - 6450 MHz
Output Frequency 1	3625 - 4225 MHz
Input Frequency 2.	6700 - 7100 MHz
Output Frequency 2	4475 - 4875 MHz
Local Frequency 1	2225 +/- 15MHz, 1kHz step
Local Frequency 2	2225 +/- 15MHz, 1kHz step
Conversion Loss	20 dB typ.
Amplitude Response	within ± 0.25 dB over any 40 MHz within ± 1.5 dB over O/P frequency band
Frequency Stability with internal reference	within $\pm 1 \times 10^{-6}$ (-20°C to 60°C)
Input Return Loss	20dB typ., 18dB min.
Output Return Loss	20dB typ., 18dB min.
Level Control	30 dB in 1dB step
Typical phase noise	-78dBc/Hz typ., -75 dBc/Hz max., @ 100 Hz -95dBc/Hz typ., -90 dBc/Hz max. @ 1 kHz -100dBc/Hz typ., -95 dBc/Hz max. @ 10 kHz
Spurious	Carrier related (in-band): Better than 30 dBc at 0 dBm input. Non- carrier related: -50 dBm typ, -42dBm max.
Intermodulation Distortion	with two in-band cw. signals at -13 dBm / IP3 \leq -50dBc
Input / Output Isolation	60dB min.



DUAL C BAND TEST LOOP TRANSLATOR

Output Mute	60dB min.
External Reference Configuration	10MHz source at 0 + 6dBm typ., automatic change-over
Remote Control	RS422 and LAN remote interface
Power Supply	230 ±10 V AC / 50±3 Hz, 13W typ.
Operating temperature range	-20 to 60°C
Atmospheric pressure	up to 9000 feet
Relative humidity	up to 95%
RF input/output and Ext. Ref connectors	N-female
Summary alarm	Yes
Control connector	MS3112E12-10S type or similar
Power Supply connection	Weather Proof Connector
Outline dimension	250 x 140 x 56 mm
Construction	Outdoor, Milled Al, IP67 rated, Painted
Weight	5kg approx.

Specifications are subject to change without notice.

Outline Drawing

