



**BONN HUNGARY
ELECTRONICS**

**950 -1950 MHz
VERY LOW PHASE NOISE
DOWN-CONVERTER**

BMCD15
NDS # 961

an ISO 9001 Certified Company



- **1 kHz FREQUENCY STEP SIZE**
- **VERY LOW PHASE NOISE, OVERPERFORMS IESS-308**
- **LOW INTERMODULATION DISTORSION**
- **LOW POWER CONSUMPTION**
- **64 PROGRAMMABLE MEMORY**
- **1U HEIGHT 19" WIDE RACK**

This down converter is intended for use in professional applications such as satellite earth stations. It has extremely low phase noise properties, minimum 35 dB better than the IESS-308 standard, making it possible to receive very weak signals close down to the thermal noise floor. The high frequency resolution of 1KHz provides easy tuning and signal search.

Technical Specifications:

Input Frequency Range:	950 - 1950 MHz
Frequency steps:	1 kHz
Input Power Level:	-40... -60 dBm
Nominal Gain:	20 ± 2 dB
Gain Adjustment:	25 dB with 1 dB steps
Noise Figure:	10 dB typical max. 14 dB
Output Frequency Range :	70 ± 20 MHz
Phase Noise:	-105 dBc/Hz @ 1 kHz typical max. -100 dBc/Hz -115 dBc/Hz @ 10 kHz typical max. -110 dBc/Hz -115 dBc/Hz @ 100 kHz typical max -110 dBc/Hz
Image Frequency Selectivity:	> 70 dB, min. 60 dB
IF Rejection:	> 70 dB, min. 60 dB
Local Oscillator Leakage:	-90 dBm typical, max. -70 dBm
Discrete Spurious Output:	-105 dBm typical, referred to the input
3.-rd order Intermodulation:	typ: -55 dBc @ F and F+1MHz, -30 dBm input (F is "in band" freq.)
Group Delay:	7 nsec @ 40 MHz BW, 3 nsec @ 5 MHz BW
Frequency Reference:	10 MHz external / internal with automatic changeover
Frequency Reference Level:	TTL
Frequency Accuracy:	2 ppm, internal TCXO
Operating Temp. Range:	-10 to +50 °C
Control :	Front panel keyboard or Remote: RS232 or RS422 or RS 485
RF Input Connector:	SMA-female,
RF Output Connector:	BNC-female
Frequency Ref. Connector:	BNC-female,
Supply Voltage:	+ 24V / 30W
Outline Dimensions (mm):	1U (1.75") Height 19" Wide Rack



BONN Elektronik 
RF Systems, Instruments and Components

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