

BDC Series

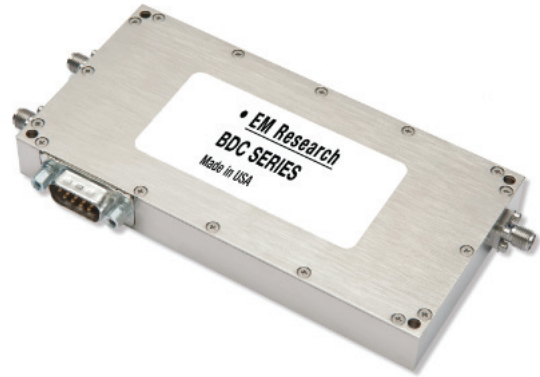
PRODUCT OVERVIEW DATASHEET

BLOCK DOWN-CONVERTER

C, X, Ku, K, Ka-Bands

FEATURES

- Compact, Rugged Design
- Automatic Switchover to Internal Reference if External Reference is Removed
- Custom Designs Available
- Internal Low-Noise LO



Custom Designs Available

SPECIFICATIONS

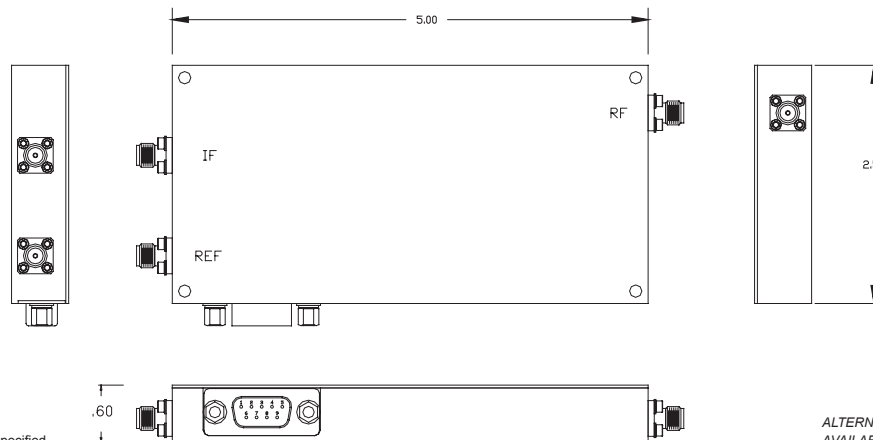
Reference Frequency	10 MHz	Phase Noise (dBc/Hz) (Ka-Band)	TYP	MAX
Ref. Input Level	0 dBm \pm 3 dB	1 KHz Offset	<-78	<-75
Reference VSWR	1.5:1, Max	10 KHz Offset	<-88	<-85
		100 KHz Offset	<-98	<-95
RF Input Frequency	C, X, Ku, K-Band	1 MHz Offset	<-120	<-113
Input VSWR	2.0:1, Typ			
IF Output Frequency	950 to 2000 MHz	Gain Level	+20 dBm \pm 2 dB	
Output VSWR	2.0:1, TYP	Gain Flatness, Full Band	\pm 1.5 dB, Max	
Output Spectrum	Non-Inverted, Single Conversion	Lock Detect	+3.3V Logic, High = Lock	
Output Power, P1dB	+10 dBm, Min	Supply Voltage	+5, +8, +12, +15V Available	
Harmonics	-20 dBc, Max	Package	5" x 2.5" x 0.6" (Standard)	
Spurs	-50 dBc, Max			
IMD3	-50 dBc, Max			
Group Delay Ripple	3 nSec p-p, Max			
Image Rejection	50 dB			
Noise Figure	15 dB, Typ (Low Noise Option)			

OPTIONS

- Lower Noise Figure, <2 dB
- Internal Reference
- Internal/External Reference Detect Circuit
- Inverted Output Spectrum at C-Band

Note: All specifications are typical unless otherwise specified and subject to change without notice. Not all performance parameters are available in combination with certain specifications.

PACKAGE OUTLINE



- Notes:
1. All dimensions are in inches unless otherwise specified.
 2. Diagrams and pictures shown are examples only.

ALTERNATIVE PACKAGES AND I/O CONNECTORS AVAILABLE DEPENDING ON FREQUENCY AND PRODUCT FEATURES.

BDC Series_Product Overview Datasheet, Rev A, 12.8.15

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