

BUC Series

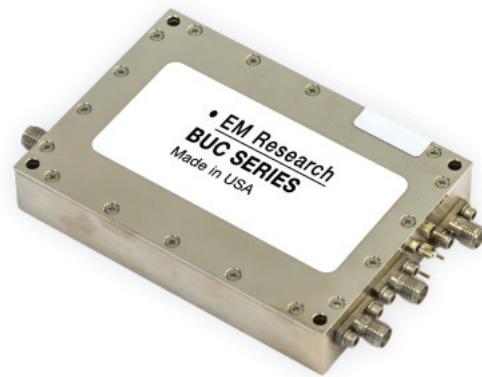
PRODUCT OVERVIEW DATASHEET

BLOCK UP-CONVERTER

C, X, Ku, K, and Ka-Bands

FEATURES

- C, X, Ku, K, and Ka-Bands Available
- L-Band Inputs (950-2150 MHz)
- Variable Attenuation Control via CAN +5V Logic, SPI, RS232, or I²C
- Compact, Rugged Design
- Internal or External Filters Available
- Custom Designs Available



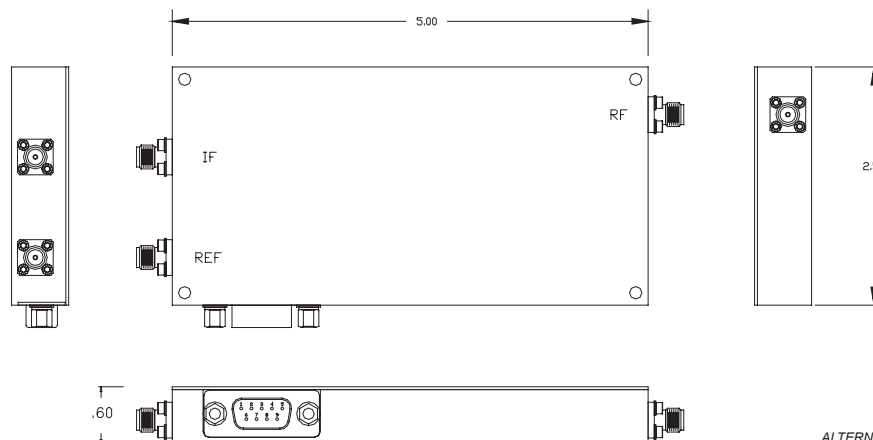
Custom Designs Available

SPECIFICATIONS

Reference Frequency.....	10 MHz	Phase Noise (dBc/Hz) (Ka-Band)	TYP	MAX
Input Level.....	0 dBm ±3 dB	1 KHz Offset.....	<-82	<-78
Input VSWR.....	1.5:1	10 KHz Offset.....	<-87	<-84
		100 KHz Offset.....	<-97	<-94
		1 MHz Offset.....	<-120	<-117
IF Input Frequency.....	950 to 2150 MHz	Gain Level.....	0 dB to +15 dB, Max	
Input Level.....	0 dBm ±3 dB	Gain Adjust Range.....	+15 dB (0.1 dB Steps)	
Input (No Damage).....	+10 dBm	Gain Flatness, Full Band.....	±1.25 dB, Max	
Input VSWR.....	1.4:1	Supply Voltage.....	+8V, +12V Available	
		Package.....	5" x 2.5" x 0.6" (Standard)	
RF Output Frequency.....	C, X, Ku, and Ka-Band	OPTIONS		
RF VSWR.....	1.6:1	• External Filter at Ka-Band		
Output Power, P1dB.....	up to +10 dBm	• Internal Reference		
Spurs (In-Band).....	-60 dBc, Max	• Internal/External Reference Detect Circuit		
Second Harmonic (LO + 2IF).....	-60 dBc @ Pout = -20 dBm (for IF > octave)	• +30 dB Gain Adjust Range Available		
		• 50 MHz External Reference Available		
		• Reference Muxed with IF Available		

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.

BUC Series_Product Overview Datasheet, Rev A, 12.8.15

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