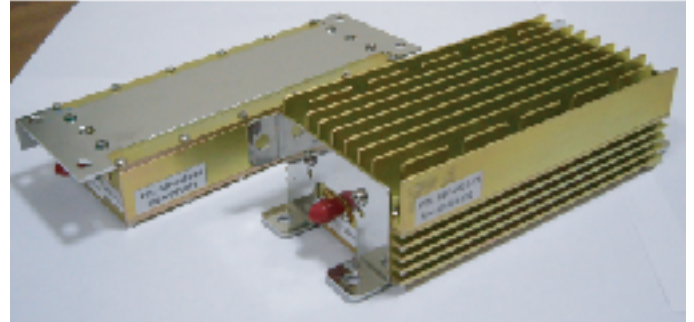


Features

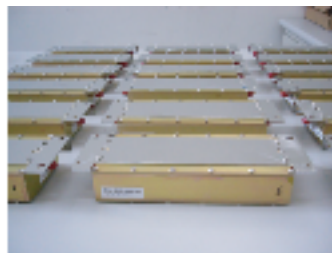
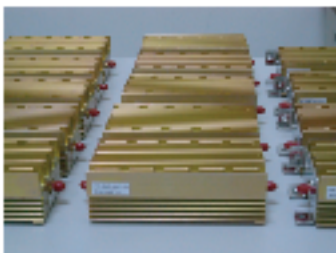
- Wide Freq. range
- High Gain with low Flatness
- High P1dB with low Flatness
- Phase Locked Local design with Low Phase Noise
- Designed to meet MIL-E-16400



Description

□

BRONTEK designs and manufactures the block up / down converters are specifically designed to translate either C, X, Ku or Ka Band to L-Band output frequencies. These blocks down converters have the quality and stability required for demanding receiver applications. We can provide a quality cost effective solution for your microwave equipment needs. The module has optimum performance with cost efficiency as like the low noise, high gain and high power out with low gain flatness performance suited for radar, commercial wireless, satellite terrestrial microwave links applications.



This data sheet is not an offer for sale and shall not obligate BORNTEK to sell the products described herein or any other products. BORNTEK may, in its sole discretion, modify or discontinue, the sale of its products at any time without notice. BORNTEK makes no warranty, including warranties of merchantability or fitness for a particular purpose, with respect to the products referenced or information provided herein.



Electrical Spec.

#B6F-0827-T1 / Up Conversion Specification	
Item	Specification
IF input frequency	1531-1756 MHz
RF output frequency	8275 ~ 8500 MHz
LO frequency	6744 MHz
Output power	+27dBm
IF input signal power range (type)	-30 dBm to 15 dBm
Max IF input signal power (with no damage)	+10 dBm
In-Band Spurious (at P1dB minus 3 dB)	<-60 dBc
LO Leakage	-45 dBm
Auto level control	When IF input level from 30dBm to -0dBm, the output power should be greater than +23dBm and comply with the above IMD3 requirement
Gain flatness (225 MHz, 28 MHz)	2 dB, 0.5dB p-p max
Phase Noise	-71 dBc/Hz@1KHz. -75 dBc/Hz@10KHz. -85 dBc/Hz@100KHz. -95 dBc/Hz@1MHz
Input connector	SMA Female
RF output connector	SMA Female
DC supply (from IF input SMA-f)	+12VDC 550Ma
Operating temperature	-40°C to +65°C

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Electrical Spec.**#B6F-0855-R1 / Down Conversion Specification**

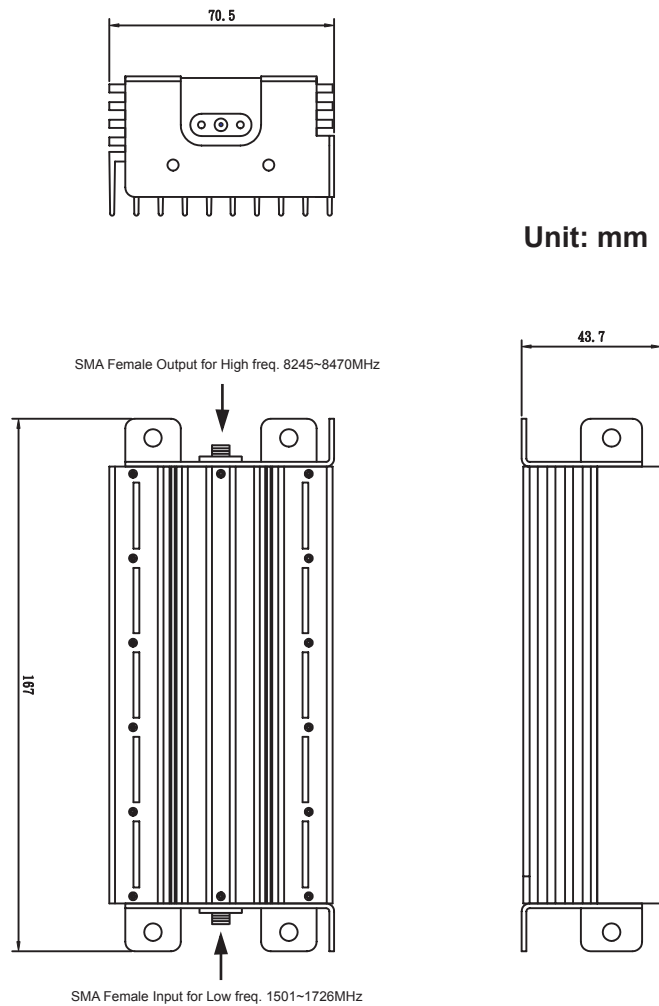
Item	Specification
RF input frequency	8275 ~ 8500 MHz
IF output frequency	1531-1756 MHz
LO frequency	6744 MHz
LO leakage @RF port / LO leakage @IF port	-50dBm, Max. / -35dBm Max.
Conversion gain	At -90dBm to -55dBm input power, the gain is 55dB; at -55dBm to 25dBm input power, the IF output power should maintain between 5 ~ +5dBm.
Gain flatness	1dB p-p max. (30MHz) / 2dB p-p max. (225MHz)
Image rejection	40 dB min
IF output power	Refer to "Conversion gain"
Noise figure	2.0
Phase noise	-71 dBc/Hz@1KHz. -75 dBc/Hz@10KHz. -85 dBc/Hz@100KHz. -95 dBc/Hz@1MHz
RF connector	SMA Female
IF connector	SMA Female
DC supply (from IF SMA port)	+12 VDC 240mA
Operation temperature	-40°C to +65°C
RSSI	0dBm = 5.96VDC -30dBm = 5.64VDC -55dBm = 3.23VDC -85dBm = 1.47VDC

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Out Line Dimension

#B6F-0827-T1 / Tx Module

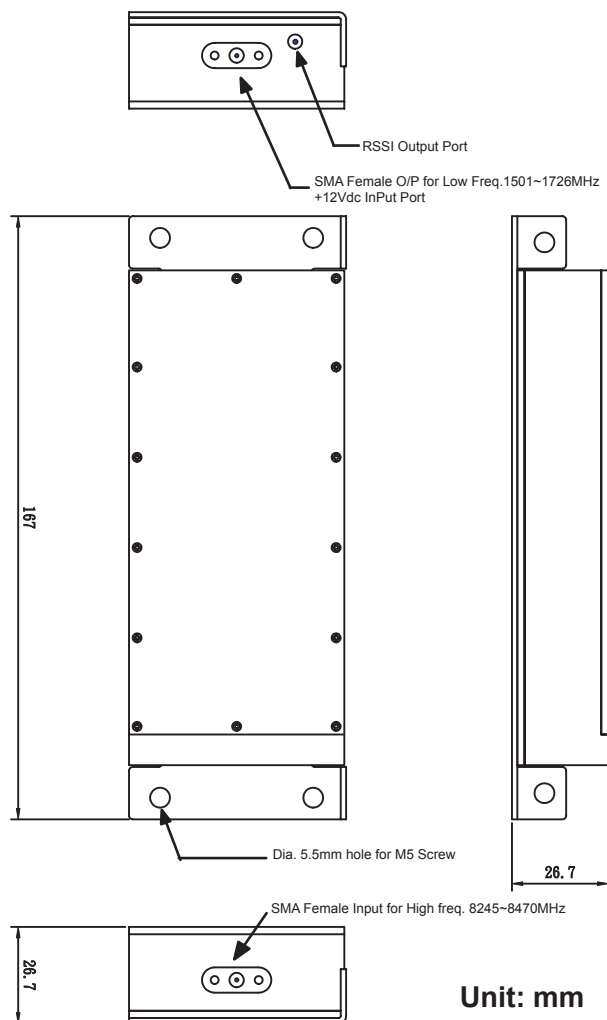


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Out Line Dimension

#B6F-0855-R1 / Rx Module



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PKG information

Quantity	P/N	Dimension
One pcs	#B6F-08XX-TR-P01	200 x 80 x 50 mm
20 pcs	#B6F-08XX-TR-P02	500 x 300 x 300 mm

Note:

#B6F-08XX-TR-P01

Material: B wave type / Corrugated Paper
Breaking Strength: 12Kg/cm2
Color: Brown

#B6F-08XX-TR-P02

Material: AB wave type / Corrugated Paper
Breaking Strength: 14Kg/cm2
Color: Brown

Contact Information:

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