

# Model 4027-B KuB-Band BDC

The model 4027 series are BDCs suitable for use with SSC's 3430/3500 line of Beacon tracking receivers, as well as the model 4500 line of Frequency agile Downconverters.

## Specifications

<b>INPUT FREQUENCY TO BDC</b> .....	<b>12.2 - 12.75 GHz</b>
IF Output Frequency .....	900 to 1450 MHz
Gain .....	20 dB min, 35 dB max
Gain Variation .....	3 dB p-p typical, 4 dB p-p max
Gain Ripple .....	1 dB p-p max, 27 MHz segment
1 dB compression point .....	+7 dBm min
Noise Figure .....	1.2
Image Rejection .....	55 dB typical, 45 dB min
3 <sup>rd</sup> Order Intercept Point .....	+10 dBm min
Local Oscillator Frequency .....	11.3 GHz
Local Oscillator Stability .....	±10 kHz
Local Oscillator Phase Noise .....	-75 dBc/Hz @ 1 kHz
Local Oscillator Leakage .....	-45 dBm max, measured at Waveguide input
Input Connector .....	SMA-female, 50 ohm
Output Connector .....	Type F, Female, 75 ohm
Dimensions .....	5.12" x 1.66" x 1.66"
Weight .....	18 oz
Operating Temperature .....	- 40 to +60 C
Relative Humidity .....	up to 100 % condensation and Frost
Power .....	+15 to 24 VDC, supplied on center conductor of IF cable
Current Draw .....	350 mA typical, 500 mA max

**Other Frequency and Gain Ranges are available.**

Please see <http://www.satsyscorp.com> for more information.



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