

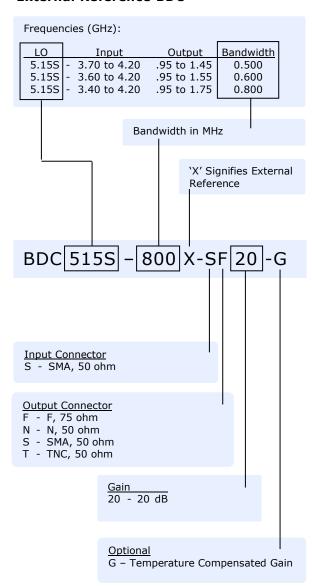
Orbital 3400X Series

C-BAND EXTERNAL REFERENCE **BLOCK DOWN CONVERTER**



10 to 40 dB gain, 250 to 800 MHz bandwidth

How to order a 3400X Series C-Band **External Reference BDC**



Orbital Flexibility:

With an LNA that covers your satellite, simply order a custom Orbital BDC to cover the bandwidth that you need. You can specify input and output connector types, external DC input, coaxial DC input, or dual power option. Most importantly, we can customize your gain to optimize compression point and noise distribution. Just tell us your needs and we will build a mass-custom solution in a unique, cost effective way.

"Mass-Custom" Solution

Orbital starts with a proven performance product that is extremely well engineered with the development costs amortized over hundreds of thousands of units and the parts costs reduced by volume discounts. We then customize the mass produced LNB into what you want at 1/100 the cost of designing and building from scratch.

Orbital Features:

Custom Engineering

- Begin with the low noise figure of a proven quality LNB
- Optimize Input and Output for superior VSWR
- Modify LO frequencies preserving phase noise and stability
- Modify and tune RF & IF filters for optimum response
- Tune for very low bandpass ripple
- Optimize Gain distribution for your system parameters

- O ring sealed connectors for weather resistant operation
- Preserve the environmental engineering of the original LNB
- RoHS & REACH compliant

- External DC connector F, N, BNC or Feedthrough
 External 10 MHz connector SMA
- Temperature Compensated Gain
- Full test documentation available

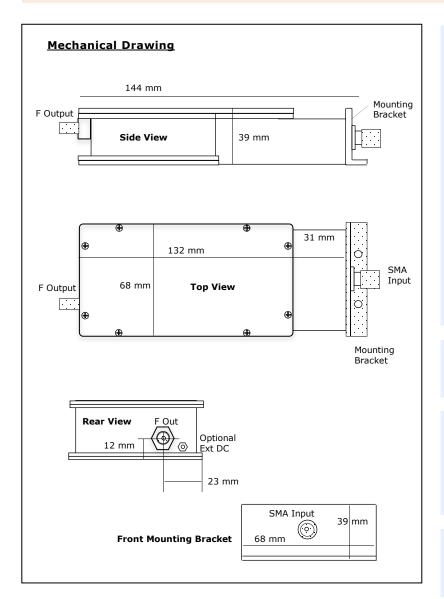
Sales contact:

sales@orbitalresearch.net

1 604 419-8585

www.orbitalresearch.net

Orbital 3400X Series C Band Ext Ref BDC Specifications



Electrical Specifications

Input

Frequency: See front page for the most

popular frequency ranges, others

available

Bandwidth: up to 800 MHz

Noise Figure: 10 dB max (dependent on gain

and bandwidth)
Input VSWR: 1.5: 1 typical

Output

Bandpass: 950 up to 1750 MHz

Output VSWR: 1.5 : 1 typical

LO Stability: dependent on 10 MHz Source Compression: +10 dBm minimum,

3rd Order

Intercept: +20 dBm minimum,

GainGain:

20 dB

Ripple: 1dB p-p max/36 MHz segment Temperature Compensated Gain Variation

(optional)

 ± 0.5 dB max over frequency band

Power

DC Input: 12 to 24 VDC, 300 mA typical Filtering: Transient, over and reverse

voltage protected

Mechanical Specifications

Size: 144 x 68 x 39 mm 5.7 x 2.7 x 1.5 inches

Weight: approx. 550 grams

19.4 ounces

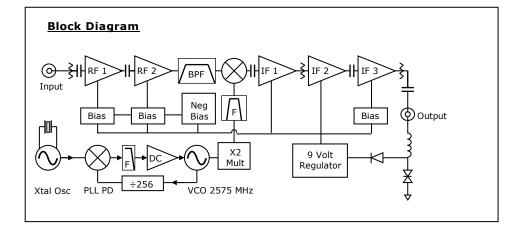
Paint: Brilliant White Enamel

RoHs & REACH Compliant

Environmental Specifications

Operating Temp: -40 to +60° Space Celsius Relative Humidity: Up to 100% condensation

and frost



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