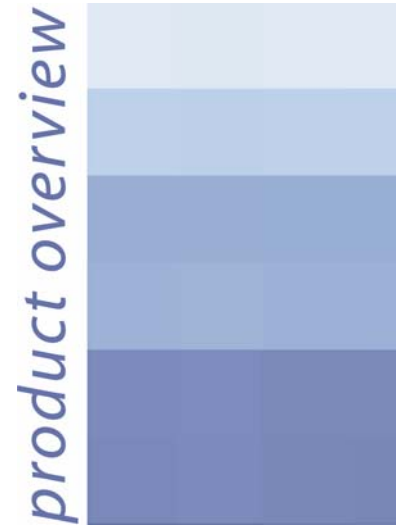




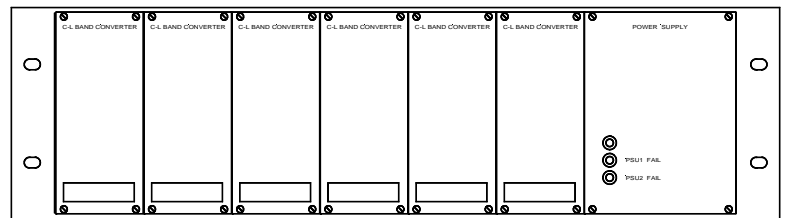
C-band:L-band Block Down Converter Shelf

This range of BDC shelves compliments our more sophisticated range which include automatic BDC redundancy switching. The BDC shelf comprises dual redundant power supplies and up to 6 C-band to L-band BDC's. The units use purpose specified Norsat BDCs (these BDCs have internal 10MHz reference – an external reference option is available). The unit is housed in a 3U 19" shelf and has a standard PSU failure alarm. Hot swap PSU's are available as an extra cost option. BDC current monitoring may be incorporated (extra cost option), giving alarm outputs for BDC failure as well.

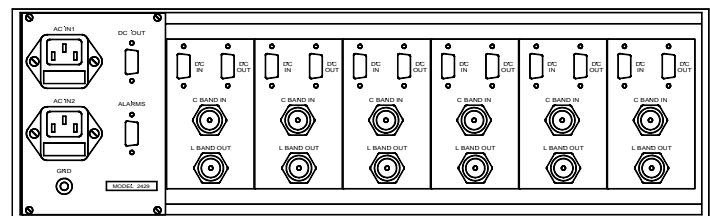


Key features

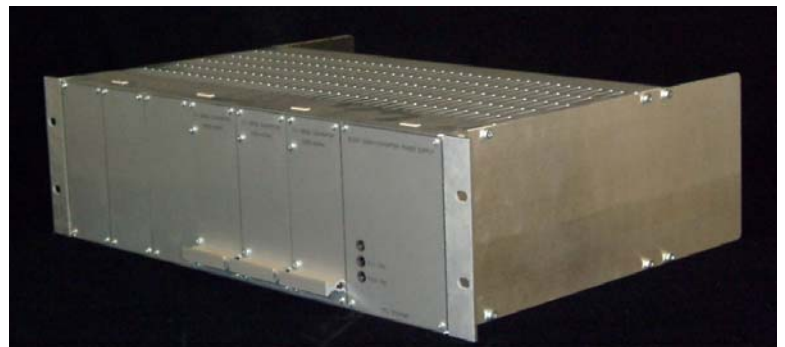
- Input 3.4 to 4.2GHz and output 950 – 1750 MHz
- Various input and output connector options
- Modular system accommodating Low, High, & extra High BDC modules.
- Hot swap BDC modules (PSU optional).
- PSU failure alarm.
- BDC failure alarm (option).
- 19" rack unit, 3U high



FRONT



REAR



Model 2445

satellite systems

C:L-band BDC technical parameters

PARAMETER	Spec	Comments
Frequencies		
Input C-band Frequency Range	3.4 to 4.2 GHz	Others available
Local Oscillator Frequency	5.150 GHz	
IF output Frequency	950 to 1750 MHz	
Signal Levels		
Input Signal Levels	-70 to -40 dBm	Typical
Maximum Input Signal Level	-20 dBm	Max rating
Gain		
Conversion Gain	0 to 25 dB	Gain level +2/-0
Gain flatness per 27MHz	±0.5dB	
Return Loss		
Input Ku Port	> = 15dB	
Output L-band Port	> = 10dB	
Noise & Linearity & Frequency Stability		
Noise Figure	10< x <15 dB	
Third Order Intercept Point (IP3)	+ 3 to + 17 dBm	
Long Term Frequency Stability	±25 KHz	
Short Term Stability (SSB) at 1KHz	-75 dBc/Hz	
Rejection / Isolation Levels		
In-Band Spuri Levels	> 40dBc	
Image Rejection	> 35 dB	
Physical Interfaces		
Input ports	N 50Ω	
Output ports	N 50Ω	(F-type 75 Ω also available)
External		
PSU	110/240 mains	Dual redundant PSU
Environment	0C to 40C	Indoor use

Model 2445



* note: custom frequencies, bandwidths, gain, DC power & external reference available



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ETL Systems develop, design and manufacture specialist equipment for satellite ground stations. For a fuller description of the ETL product range, please see our website on www.etlsystems.com. This range can be used as the basis to meet your specific demands.

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