



Geosat
Microwave

- Frequency Range 3.4 - 4.2 GHz
- L.O stability depends on ext. ref.
- Power supply +12 to +24V DC
- Power connector Feed thru and/or output connector



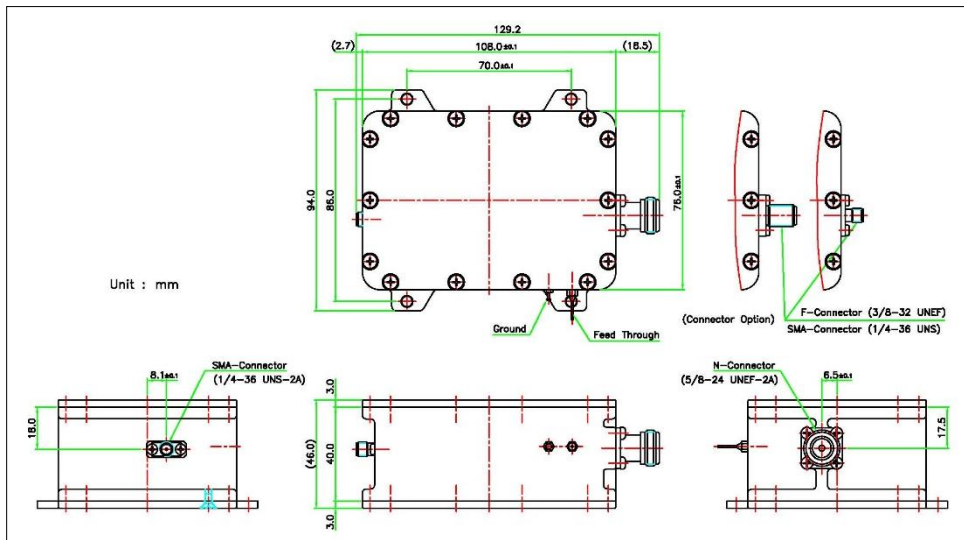
Block Downconverter C-Band Ext. Ref. 3442X (BDC)

Model: GBDC3442X

Specifications

Parameter	Specification
Input Freq.	3.4 - 4.2 GHz
Output Freq.	950 - 1750MHz
L.O Freq.	5.15 GHz
Noise figure	10 dB max
Conversion gain at -40 to +60°C	40 dB typ. (37dB min. 43dB max.)
Gain flatness	4 dBp-p max.
Gain flatness at -40 to +60°C	5 dBp-p max.
Gain ripple at per 27MHz, -30 to +60°C	1 dBp-p max.
L.O stability at -40 to +60°C	depends on ext. ref.
Image rejection	45 dBc min.
Phase noise	-73 dBc/Hz (@ 1KHz) -83 dBc/Hz (@ 10KHz) -93 dBc/Hz (@ 100KHz)
Output P1dB	+5 dBm min.
Ext. ref. input freq. & power	10 MHz, -5 to +5 dBm
Ext. ref. input port	IF output connector
Input VSWR	2.0: 1 max
Output VSWR	2.0: 1 max
Input connector	SMA-type female
Output connector	F, N, SMA-type female (option)
Power supply	+12 to +24V DC
Power supply connector	Feed thru and/or output connector
Required current	300 mA max.
Operating temperature	-40 to +60°C
Waterproof	IP 67
Dimension (exclude connector)	108.0 x 94.0 x 46.0 mm
Weight	620 g

Mechanical Diagram (Unit: inch (mm))



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