



**Geosat
Microwave**

- Frequency Range 17.2 - 18.2 GHz
- L.O stability depends on ext. ref.
- Power supply +15 to +24V DC
- Power connector Feed thru and/or output connector



Block Downconverter Ka-Band Ext. Ref. 1718X (BDC)

Model: GBDKA1718X

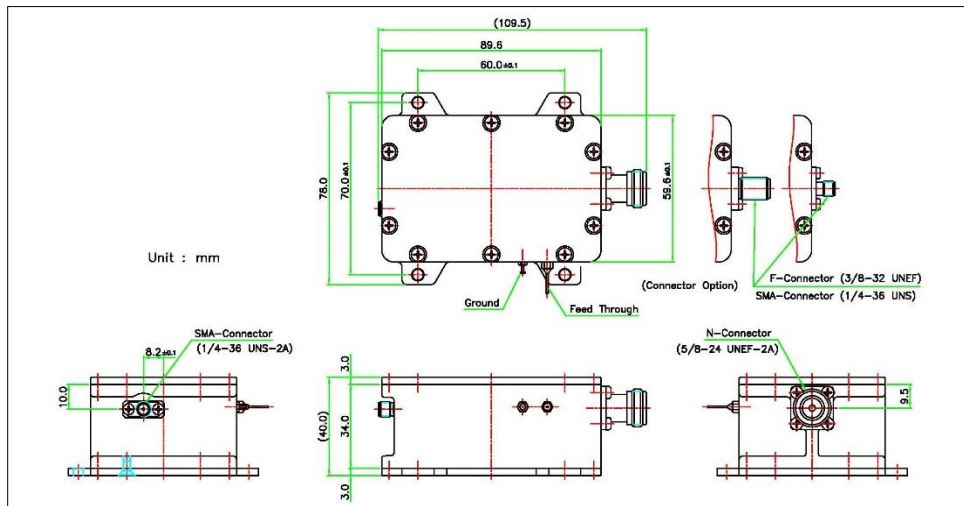
Specifications

Parameter	Specification
Input Freq.	17.2 - 18.2 GHz
Output Freq.	950 – 1950 MHz
L.O Freq.	16.25 GHz
Noise figure	18 dB max
Conversion gain at -40 to +60°C	25 dB typ. (22dB min. 28dB 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	40 dBc min.
Phase noise	-70 dBc/Hz (@ 1KHz) -80 dBc/Hz (@ 10KHz) -95 dBc/Hz (@ 100KHz)
Output P1dB	+5 dBm min.
Ext. ref. input freq. & power	10 MHz, -5 to +5 dBm
Ext. ref. input port	Output connector
Input VSWR	2.2: 1 max
Output VSWR	2.2: 1 max
Input connector	SMA-type female
Output connector	F, N, SMA-type female (option)
Power supply	+15 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)	89.6 x 78.0 x 40.0 mm
Weight	400 g

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Mechanical Diagram (Unit: inch (mm))



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