



9000SHTBS

9000 Ka-Simultaneous Triple Band PLL LNB

Frequency Bands: 18.2 - 19.2 GHz & 19.2 - 20.2 GHz

W/G Isolator: No

Power Connector: SMA Connector



KEY SPECIFICATIONS

Band	Ka-Band
Input Frequency Band 1	18.20 - 19.20 GHz
Input Frequency Band 2	19.20 - 20.20 GHz
Input Frequency Band 3	20.20 - 21.20 GHz
LO Frequency 1	17.25 GHz
LO Frequency 2	18.25 GHz
LO Frequency 3	19.25 GHz
LO Stability	±10 kHz
Noise Figure Typ	1.9 dB
Output Frequency Band 1	950 - 1950 MHz
W/g Isolator	No

RF SPECIFICATIONS

Conversion Gain Max	65 dB
Conversion Gain Min	55dB
Conversion Gain Typ	60 dB
Gain Flatness (over Any 36mhz)	1 dB p-p
Gain Flatness (over Full Band)	4 dB p-p
Image Rejection	40 dBc min.
Input VSWR	3.5 : 1 max.
Output P1db	5 dBm min.
Output VSWR	2.2 : 1 max.





Innovative Communication Solutions

Phase Noise 100khz Offset Max	-95 dBc/Hz
Phase Noise 10khz Offset Max	-80 dBc/Hz
Phase Noise 1khz Offset Max	-70 dBc/Hz

ELECTRICAL SPECIFICATIONS

IF Connector	SMA Connector
Power Requirements	+12 to +24V DC

INTERFACE SPECIFICATIONS

RF Input Connector	WR 42
--------------------	-------

ENVIRONMENTAL SPECIFICATIONS

IP Rating	IP 67
Temperature Operational	-40 to +60°C

PHYSICAL SPECIFICATIONS

Product Dimensions (LxWxH)	38.4 x 108.0 x 160.8 mm
Product Weight	1000 g

LOGISTICS SPECIFICATIONS

HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package
8517690000	Made in Korea	Korea	EAR99	160 x 110 x 40 mm 1050 g

HOW TO ORDER

9000SHDAIF

LNB SERIES	CONNECTOR	F: 75 Ohm N: 50 Ohm S: SMA 50 Ohm
Simultaneous Band	W/G ISOLATOR	BLANK: No isolator I: With Isolator
	FREQUENCY	A: 17.2 - 18.2 GHz & 18.2 - 19.2 GHz B: 18.2 - 19.2 GHz & 19.2 - 20.2 GHz C: 19.2 - 20.2 GHz & 20.2 - 21.2 GHz D: 20.2 - 21.2 GHz & 21.2 - 22.2 GHz
	BAND TYPE	D: Dual T: Triple U: Quad
	REFERENCE	H: Internal X: External

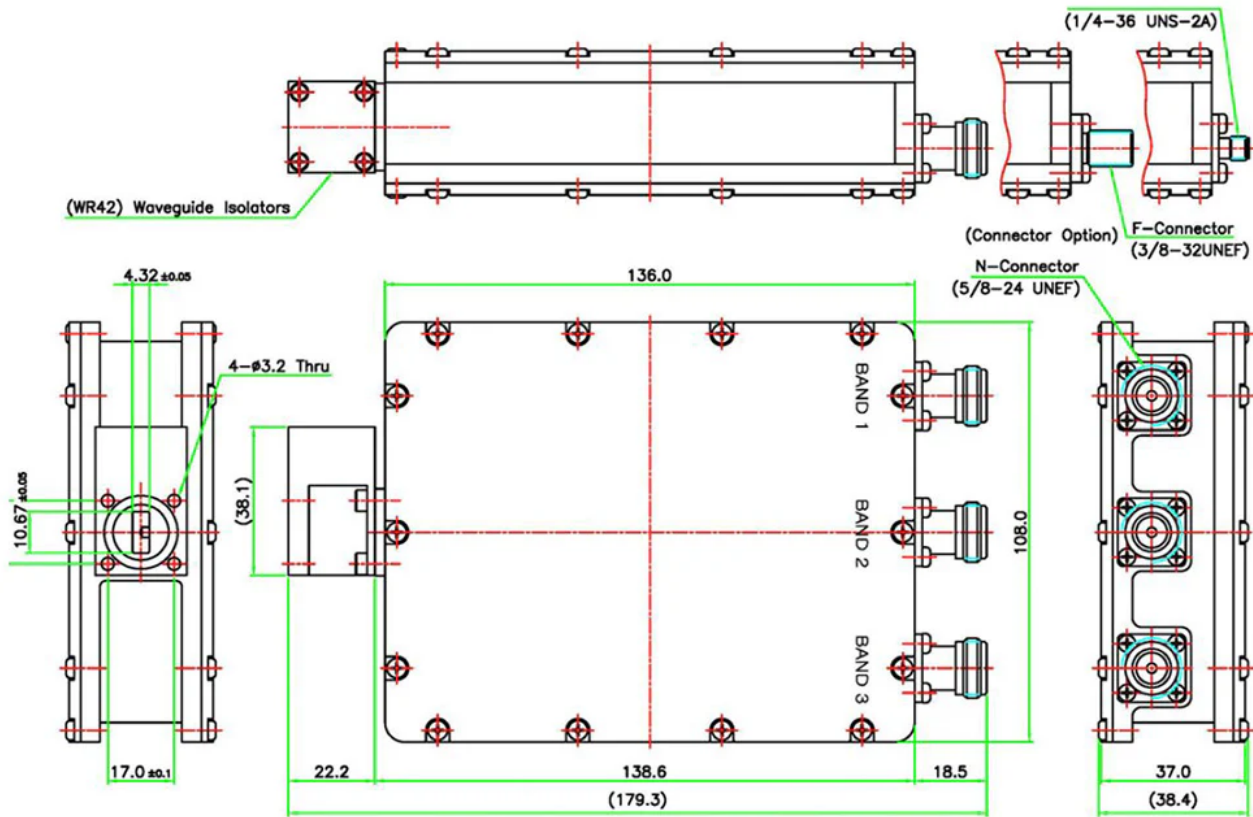
MECHANICAL DIAGRAMS





Norsat
International Inc.

Innovative Communication Solutions



Esatcom Inc
Norsat authorized distributor
www.esatcom.com

Tel
718.276.0800

Email
sales@esatcom.com

