



1109HCF

1000 Ku-Band Single Band PLL LNB

L.O Stability: 1: ± 10 kHz

Noise Figure: 0.9 dB

Output Connector: F: 75 Ohm



KEY SPECIFICATIONS

Band	Ku-Band
Input Frequency Band 1	10.95 - 11.70 GHz
LO Frequency 1	10.00 GHz
LO Stability	± 10 kHz
LO Type	PLL
Noise Figure Max	1.0 dB
Noise Figure Typ	0.9 dB
Number Of Onboard Los	Single-Band
Output Frequency Band 1	950 - 1700 MHz

RF SPECIFICATIONS

Conversion Gain Max	65 dB
Conversion Gain Min	55 dB
Conversion Gain Typ	60 dB
Gain Flatness (over Full Band)	≤ 4 dB p-p
Input VSWR	2.5 : 1 max.
Output P1db	+ 5 dBm min.
Output VSWR	2.2 : 1 max.
Phase Noise 100khz Offset Max	-95 dBc/Hz

ELECTRICAL SPECIFICATIONS

Current Consumption	300 mA max.
Power Requirements	+12 to +24V DC

INTERFACE SPECIFICATIONS

IF Connector	F-Connector
RF Input Connector	WR-75 waveguide grooved



M and C SPECIFICATIONS

Led Indicators	None
----------------	------

ENVIRONMENTAL SPECIFICATIONS

IP Rating	IP 67
Temperature Operational	-40°C to +60°C
Temperature Storage	-40 to +80°C

PHYSICAL SPECIFICATIONS

Product Height	42 mm
Product Length	110 mm
Product Weight	0.3 kg
Product Width	42 mm

LOGISTICS SPECIFICATIONS

HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package
8517690000	Made in Japan	Richmond, BC, Canada	EAR99	140 x 50 x 50 mm

HOW TO ORDER

1208HAF

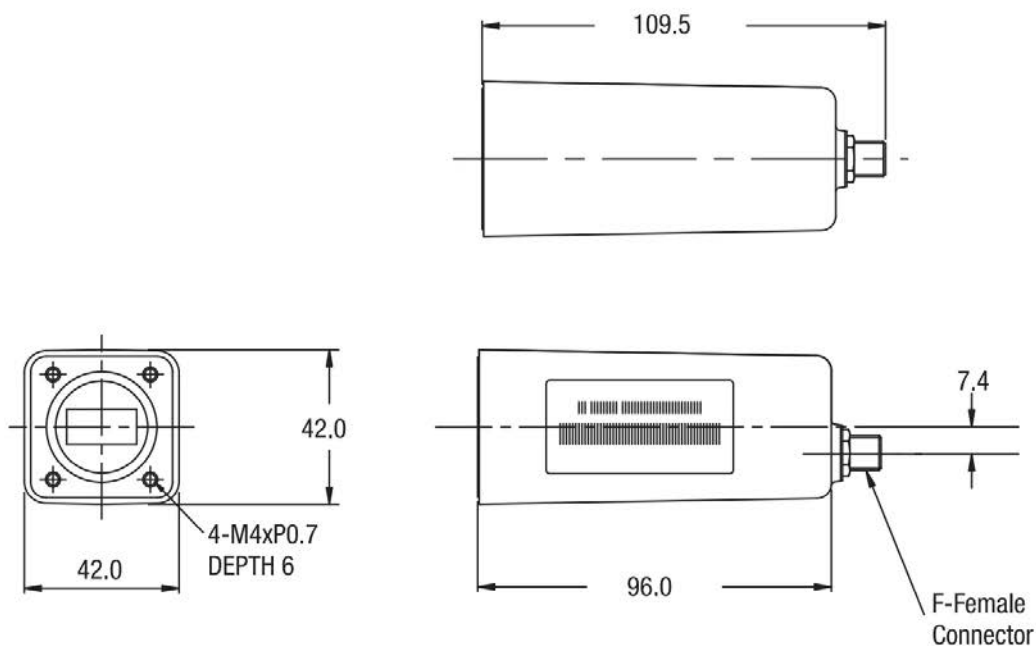
CONNECTOR	F - 75 Ohm N - 50 Ohm
FREQUENCY	A: 11.70 - 12.20 GHz B: 12.25 - 12.75 GHz C: 10.95 - 11.70 GHz
INTERNAL REFERENCE	
NOISE FIGURE	07 - 0.7 dB 08 - 0.8 dB 09 - 0.9 dB
L.O. STABILITY	1: ± 10 kHz 2: ± 25 kHz (See HS1000 for <5 kHz L.O. stability)
LNB SERIES #	

MECHANICAL DIAGRAMS



Norsat
International Inc.

Innovative Communication Solutions



ESATCOM
INC

Norsat authorized distributor

Esatcom Inc.

3628 Francis Lewis Blvd.

Flushing, NY 11358

www.esatcom.com

Tel: 718.799.0084

Email: sales@esatcom.com