

# Q1000HF

## Q-Band Single Band PLL LNB

**Connector:** F: 75 Ohm

Norsat's Low Noise Blocks (LNBs) provide signal reception for satellite communications around the world. We offer premium performance and reliability in the smallest form factor possible. All of our standard Q-Band LNBs are backed by a 3 year warranty and nearly forty years of experience as the industry's leading provider of high performance LNBs.



## KEY SPECIFICATIONS

Band	Q-Band
Input Frequency Band 1	40.50 - 41.00 GHz
LO Frequency 1	39.55 GHz
LO Stability	$\pm 50$ kHz
LO Type	PLL
Noise Figure Max	3 dB
Number Of Onboard Los	Single-Band
Output Frequency Band 1	950 - 1450 MHz

## RF SPECIFICATIONS

Conversion Gain Max	60 dB
Conversion Gain Min	50 dB
Gain Flatness (over Full Band)	$\leq 3$ dB p-p max.
Input VSWR	2.0 : 1 max.
Output P1db	+ 5 dBm min.
Output VSWR	1.8 : 1 max.
Phase Noise 100kHz Offset Max	-90 dBc/Hz

## ELECTRICAL SPECIFICATIONS

Current Consumption	1000 mA max.
Power Requirements	+8 to +13V DC

## INTERFACE SPECIFICATIONS

IF Connector	F-Connector
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RF Input Connector

WR-22 waveguide grooved

## ENVIRONMENTAL SPECIFICATIONS

Temperature Operational

-40 to +50°C

Temperature Storage

-40 to +80°C

## PHYSICAL SPECIFICATIONS

Product Height

39 mm

Product Length

146 mm

Product Weight

0.7 kg

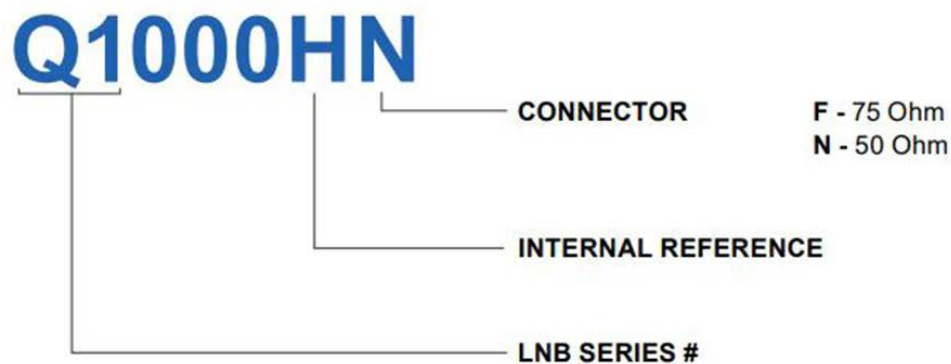
Product Width

55 mm

## LOGISTICS SPECIFICATIONS

HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package
8517690000	Made in the Republic of Korea	Richmond, BC, Canada	EAR99	146 x 55 x 39 mm

## HOW TO ORDER



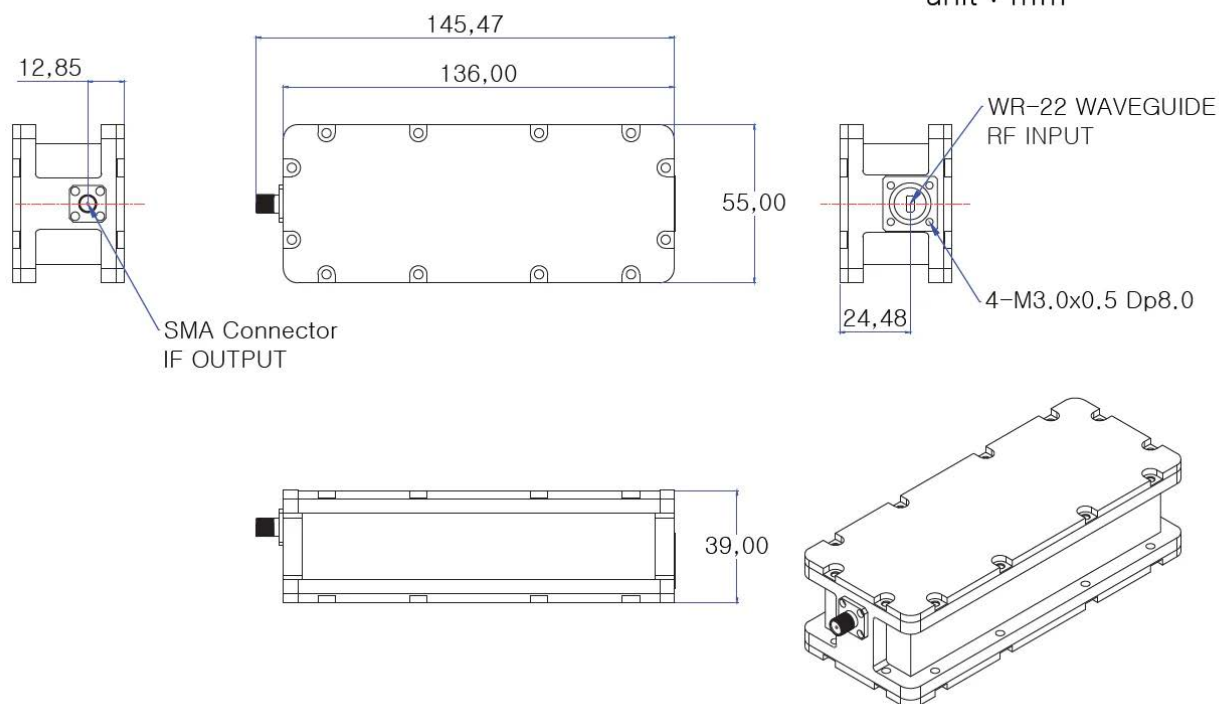
## MECHANICAL DIAGRAMS



Norsat  
International Inc.

Innovative Communication Solutions

unit : mm



Norsat  
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ESATCOM  
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