

9000HD-3N

9000 Single Band Ka-Band PLL LNB

Connector: N: 50 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 Ka-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. 9000HD-3 Series.



KEY SPECIFICATIONS

| | |
|-------------------------|-------------------|
| Band | Ka-Band |
| Input Frequency Band 1 | 21.20 - 22.20 GHz |
| LO Frequency 1 | 20.25 GHz |
| LO Stability | ±50 kHz |
| LO Type | PLL |
| Noise Figure Typ | 1.6 dB |
| Number Of Onboard Los | Single-Band |
| Output Frequency Band 1 | 950 - 1950 MHz |

RF SPECIFICATIONS

| | |
|--------------------------------|--------------|
| Conversion Gain Typ | 58 dB |
| Gain Flatness (over Full Band) | +/- 2 dB max |
| Image Rejection | 40 dBc min. |
| Input VSWR | 2.2 : 1 max. |
| Output P1db | + 5 dBm min. |
| Output VSWR | 2.0 : 1 max. |
| Phase Noise 0.1khz Offset Max | -60 dBc/Hz |
| Phase Noise 1khz Offset Max | -70 dBc/Hz |
| Phase Noise 10khz Offset Max | -80 dBc/Hz |

ELECTRICAL SPECIFICATIONS

| | |
|---------------------|----------------|
| Current Consumption | 300 mA |
| Power Requirements | +12 to +24V DC |



INTERFACE SPECIFICATIONS

| | |
|--------------------|-------------|
| IF Connector | N-Connector |
| RF Input Connector | WR-42 |

M and C SPECIFICATIONS

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

ENVIRONMENTAL SPECIFICATIONS

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

PHYSICAL SPECIFICATIONS

| | |
|----------------|----------|
| Product Height | 40 mm |
| Product Length | 101.4 mm |
| Product Weight | 0.3 kg |
| Product Width | 42.5 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 | |

HOW TO ORDER

9000HD-3F

CONNECTOR

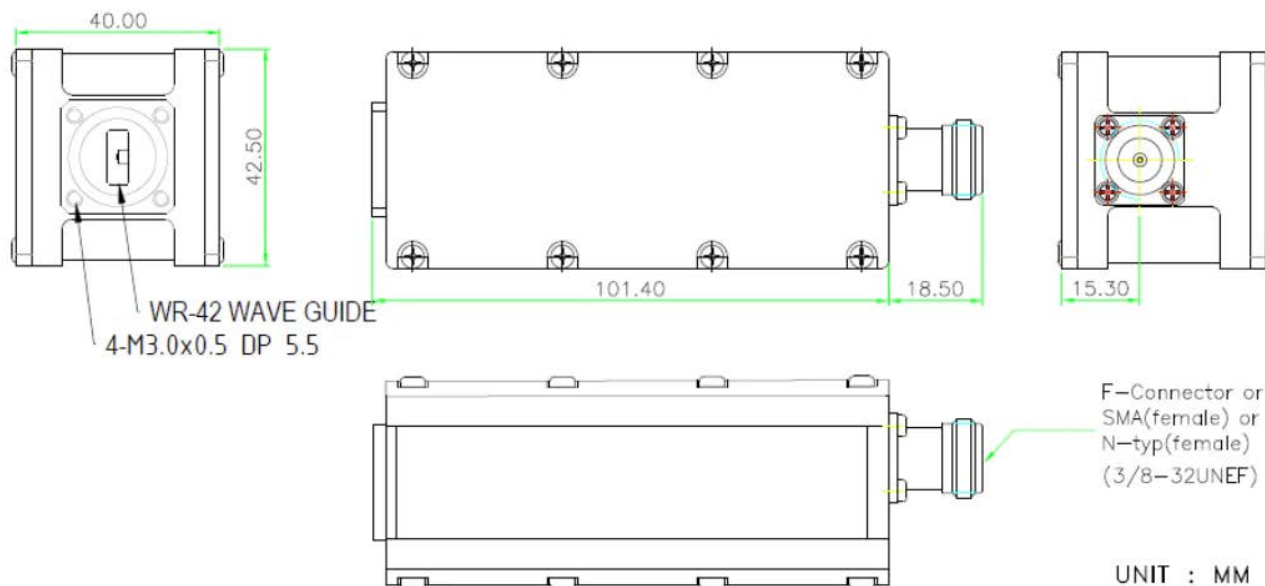
F - 75 Ohm
N - 50 Ohm

MECHANICAL DIAGRAMS



Norsat
International Inc.

Innovative Communication Solutions



Norsat
International Inc.

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