Norsat International Inc.

Innovative Communication Solutions

LNB

KA-BAND 5 BAND EXT REF

9000X5

SPECIFICATIONS

Noise Figure	2.9 dB max. - no isolator @ CF 3.0 dB max. - with isolator @ CF
L.O Stability	Phase Locked to External Reference
Phase Noise (SSB) max.	Depends on External Reference
Input VSWR	3.5 : 1 max. - no isolator 1.5 : 1 max. - with isolator
Output VSWR	2.2 : 1 max.
Gain	60 dB typ., 55 dB min., 65 dB max.
Gain Flatness| (over full band)	≤ 4 dB p-p
Output P1dB	+ 10 dBm min.

DC Power		+ 12V to + 24V DC (See below for Band Select)
Tone:	**Frequency** **Amplitude Voltage** **Duty Cycle**	22 kHz ± 4 kHz 0.6 ± 0.2 V 50% ± 10%
Current		500 mA max.
Input (waterproof)		WR-42 waveguide grooved
Output (waterproof)		F-Connector (75 Ohm) N-Connector (50 Ohm)
Dimensions (L x W x H)		134 mm x 67 mm x 37 mm (5.28 in x 2.6 in x 1.5 in) - no isolator 156 mm x 67 mm x 37 mm (6.1 in x 2.6 in x 1.5 in) - with isolator
Weight		550 g (19.40 oz)
Operating Temperature		- 40 to + 60˚C
Storage Temperature		- 40 to + 80˚C
External Ref Freq		10 MHz (sine-wave), -5 to +5 dBm

FREQUENCY BANDS

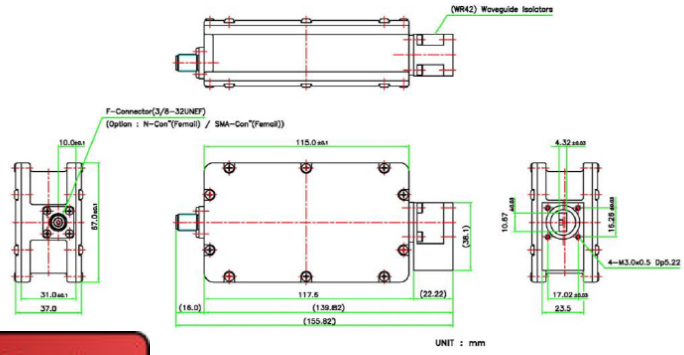
	Band 1 (13V)	**Band 2** (13V / 22 kHz Tone)	**Band 3** (18V)	**Band 4** (18V / 22 kHz Tone)	**Band 5** (22V)
Frequency Band (GHz)	17.20 - 18.20	18.20 - 19.20	19.20 - 20.20	20.20 - 21.20	21.20 - 22.20
L.O. Frequency (GHz)	16.25	17.25	18.25	19.25	20.25
IF Frequency (MHz)	950 - 1950	950 - 1950	950 - 1950	950 - 1950	950 - 1950

HOW TO ORDER

9000XI5N

- **CONNECTOR** — **F -** 75 Ohm; **N -** 50 Ohm
- **(BLANK) - NO ISOLATOR**; **I - ISOLATOR**
- **EXTERNAL REFERENCE**
- **LNB SERIES #**

MECHANICAL DIAGRAM



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