



Norsat
International Inc.

Innovative Communication Solutions

LNB

KA-BAND EXT REF

9000X-4

SPECIFICATIONS

Noise Figure	9000XD-4	1.3dB typ., 1.6 dB max. at room temp. @ CF 1.5dB typ., 1.8 dB max. at room temp. @ CF
L.O. Stability		Phase Locked to External Reference
Phase Noise (SSB) max.		-70 dBc at 1 kHz -80 dBc at 10 kHz -95 dBc at 100 kHz
Input VSWR		2.5 : 1 max.
Output VSWR		2.5 : 1 max.
Gain		60 dB typ., 55 dB min., 65 dB max.
Gain Flatness (over full band)		≤ 4 dB p-p
Output P1dB		+5 dBm min.



DC Power	+12V to +24V DC
Current	400 mA max.
Input (waterproof)	WR-42 waveguide grooved
Output (waterproof)	F-Connector (75 ohm) N-Connector (50 ohm)
Dimensions (L x W x H)	120mm x 60mm x 45mm (4.72in x 2.36in x 1.77in)
Weight	420 g (14.82 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

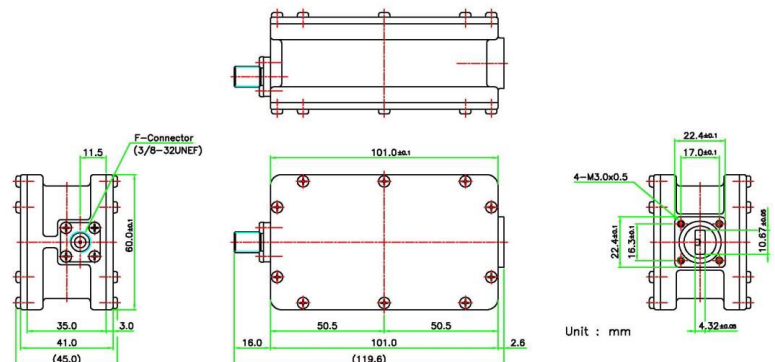
	9000XA-4	9000XB-4	9000XC-4	9000XD-4	9000XE-4
Frequency Band (GHz)	18.2 - 19.2	19.2 - 20.2	20.2 - 21.2	21.2 - 22.2	17.2 - 18.2
L.O. Frequency (GHz)	17.25	18.25	19.25	20.25	16.25
IF Frequency (MHz)	950 - 1950	950 - 1950	950 - 1950	950 - 1950	950 - 1950

HOW TO ORDER

9000XAN-4

CONNECTOR	F - 75 Ohm N - 50 Ohm
FREQUENCY	A: 18.2 - 19.2 GHz B: 19.2 - 20.2 GHz C: 20.2 - 21.2 GHz D: 21.2 - 22.2 GHz E: 17.2 - 18.2 GHz
EXTERNAL REFERENCE	
LNB SERIES #	

MECHANICAL DIAGRAM



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