



Norsat
International Inc.

Innovative Communication Solutions

LNB KA-BAND EXT. REF 9000X-2

SPECIFICATIONS

Noise Figure	1.3 dB typ., 1.6 dB max. at room temp. @ CF
L.O. Stability	Phase Locked to External Reference
Phase Noise	-70 dBc/Hz at 1 kHz -80 dBc/Hz at 10 kHz -95dBc/Hz at 100 kHz
Input VSWR	2.5 : 1
Output VSWR	2.5 : 1
Gain	55 dB min., 60 dB typ., 65 dB max.
Gain Flatness	4 dB p-p
Gain Variation over temperature @ fixed frequency (-40 to +60°C)	5 dB p-p



Output P1dB	+3 dBm min.
Power Requirements	+12 to +24V DC
Current Drain	450 mA max.
Input Waveguide	WR42
Dimensions (L x W x H)	42 mm x 42 mm x 111 mm (1.65 in x 1.65 in x 4.37 in)
Weight	270 g
Ext Ref Frequency	10 MHz, -5 to +5 dBm
Temperature Range	-40°C to +60°C

FREQUENCY BANDS

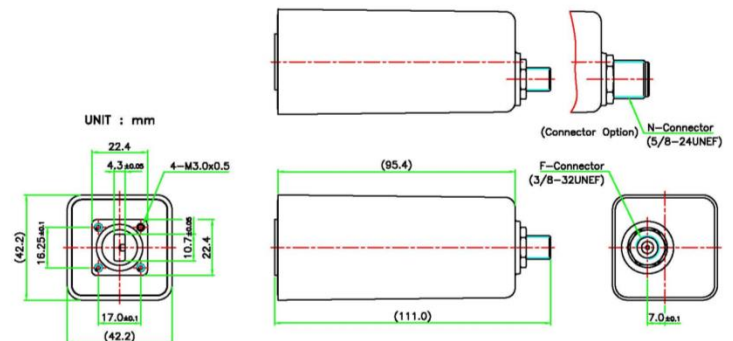
Model	9000XA-2	9000XB-2	9000XC-2
Input frequency (GHz)	18.20 to 19.20	19.20 to 20.20	20.20 to 21.20
L.O. frequency (GHz)	17.25	18.25	19.25
Output frequency (MHz)	950 to 1950	950 to 1950	950 to 1950

HOW TO ORDER

9000XAN-2

COMPACT MODEL	
CONNECTOR	F - 75 Ohm N - 50 Ohm
FREQUENCY	A - 18.20 - 19.20 GHz B - 19.20 - 20.20 GHz C - 20.20 - 21.20 GHz
EXTERNAL REFERENCE	
LNB SERIES #	

MECHANICAL DIAGRAM



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