



Norsat
International Inc.

Innovative Communication Solutions

LNB

KA-BAND 5 BAND PLL

9000H5

SPECIFICATIONS

Noise Figure	2.5 dB typ., 2.9 dB max. - no isolator @ CF 2.6 dB typ., 3.0 dB max. - with isolator @ CF
L.O. Stability	± 10 KHz max.
Phase Noise (SSB) max.	-70 dBc/Hz at 1 kHz -78 dBc/Hz at 10 kHz -93 dBc/Hz at 100 kHz
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 (each band)	≤ 4 dB p-p
Output P1dB	+ 10 dBm min.



DC Power	+ 12V to + 24V DC (see below for Band Select)
Current	500mA
Input (waterproof)	WR-42 waveguide grooved
Output (waterproof)	F-Connector (75 Ohm) N-Connector (50 Ohm)
Dimensions (L x W x H)	137mm x 67mm x 39mm (5.4 in x 2.6 in x 1.5 in) - no isolator 156 mm x 67 mm x 39 mm (6.1 in x 2.6 in x 1.5 in) - with isolator
Weight	550 g (19.4 oz)
Operating Temperature	- 40 to +60°C
Storage Temperature	- 40 to +80°C

FREQUENCY BANDS

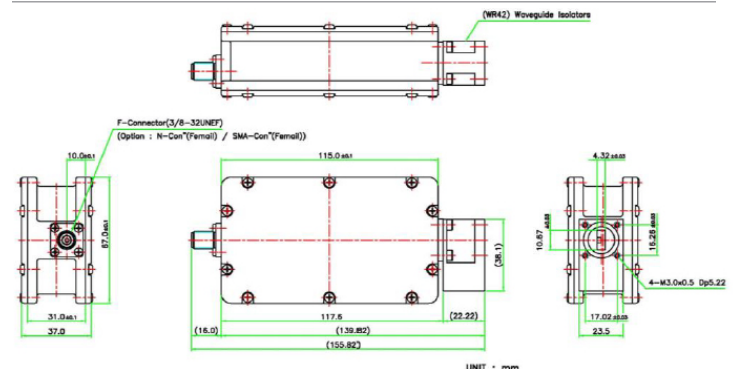
	Band 1 (13V)	Band 2 (13V / 22 kHz Tone)	Band 3 (18V)	Band 4 (18V / 22 kHz Tone)	Band 5 (22V)
Frequency Band (GHz)	17.20 - 18.20	18.20 - 19.20	19.20 - 20.20	20.20 - 21.20	21.20 - 22.20
L.O. Frequency (GHz)	16.25	17.25	18.25	19.25	20.25
IF Frequency (MHz)	950 - 1950	950 - 1950	950 - 1950	950 - 1950	950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

HOW TO ORDER

9100HI5N

CONNECTOR	F - 75 Ohm N - 50 Ohm
(BLANK) - NO ISOLATOR I - ISOLATOR	
INTERNAL REFERENCE	
L.O. STABILITY	1: ±10kHz
LNB SERIES #	

MECHANICAL DIAGRAM



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