



LNB

KU-BAND PLL COMPACT

HS1000 HIGH STABILITY



SPECIFICATIONS

Noise Figure	0.7 - 0.9 dB typ. at room temp. @ CF (0.8 - 1.0 dB max.)
L.O. Stability	± 2 kHz to ± 5 kHz (depending on model number)
Phase Noise (SSB) max.	-70 dBc/Hz at 1 kHz -75 dBc/Hz at 10 kHz -90 dBc/Hz at 100 kHz
Input VSWR	2.5 : 1 max.
Output VSWR	2.2 : 1 max.
Gain	60 dB typ., 55 dB min., 65 dB max.
Gain Flatness (over full band)	≤ 5 dB p-p
Output P1dB	+ 4 dBm min.

DC Power	+15V to +24V DC
Current	300 mA max.
Input (waterproof)	WR-75 waveguide grooved
Output (waterproof)	F-Connector (75 Ohm) N-Connector (50 Ohm)
Dimensions (L x W x H)	110 mm x 42 mm x 42 mm (4.3 in x 1.7 in x 1.7 in)
Weight	300 g (10.58 oz)
Operating Temperature	- 40 to + 60°C
Storage Temperature	- 40 to + 60°C

FREQUENCY BANDS

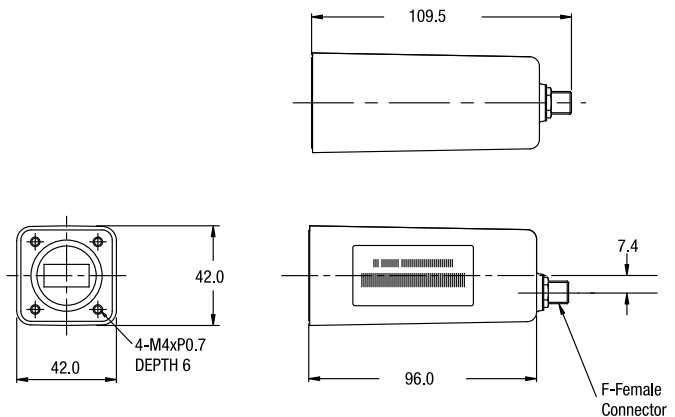
	HS1000A	HS1000B	HS1000C
Frequency Band (GHz)	11.70 - 12.20	12.25 - 12.75	10.95 - 11.70
L.O. Frequency (GHz)	10.75	11.30	10.00
IF Frequency (MHz)	950 - 1450	950 - 1450	950 - 1700

HOW TO ORDER

HS1048AF

CONNECTOR	F - 75 Ohm N - 50 Ohm
FREQUENCY	A: 11.70 - 12.20 GHz B: 12.25 - 12.75 GHz C: 10.95 - 11.70 GHz
NOISE FIGURE	7 - 0.7 dB 8 - 0.8 dB 9 - 0.9 dB
L.O. STABILITY	2: ± 2 kHz 3: ± 3 kHz 4: ± 4 kHz 5: ± 5 kHz
LNB SERIES #	

MECHANICAL DIAGRAM



CERTIFICATE OF COMPLIANCE

1000H Series – KU BAND PLL

Manufacturer:

Norsat International Inc.

Product Models:

LNB LU BAND PLL
1000H Series (all iterations)

Conforms to the Requirements of EC Directives:

2015/863/EU Restrictive of the use of certain hazardous substances

By Meeting the Following Standards:

EN 62321-1

By way of Bill of Materials

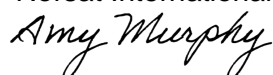
Cadmium (Cd)	< 100 ppm
Lead (pb)	< 1000 ppm
Mercury (Hg)	< 1000 ppm
Hexavalent Chromium (Cr VI)	< 1000 ppm
Polybrominated Biphenyl's (PBB)	< 1000 ppm
Polybrominated Diphenyl Ethers (PBDE)	< 1000 ppm
Bis(2-Ethylhexyl) phthalate (DEHP)	< 1000 ppm
Benzyl butyl phthalate (BBP)	< 1000 ppm
Dibutyl phthalate (DBP)	< 1000 ppm
Diisobutyl phthalate (DIBP)	< 1000 ppm

This certificate certifies that the materials and/or products supplied by Norsat International listed above are in conformance with the requirements, specifications, and drawings.

Date of Issue: May 19th, 2021

Expiry Date: May 19th, 2030

Amy Murphy
Quality Assurance Engineer
Norsat International Inc.



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Manufacturer:

Norsat International Inc.

Product Models:

LNB KU BAND PLL
1000H Series (all iterations)

Conforms to the Requirements of EC Directives:

2014/35/EU	Low Voltage Directive
2014/53/EU	Radio Equipment Directive
2014/30/EU	EMC Directive
2015/863/EU	Restrictive of the use of certain hazardous substances

By Meeting the Following Standards:

EN 60950-1:2006+A2:2013, EN 60950-22:2017

EN 301-489-1 V 2.1.1, EN 301-489-12 V3.1.0

EN 62321-1



Remark/Additional Info: *After review and preparation of the necessary technical documentation as well as the conformity declaration, the required CE marking can be affixed to this product. Other relevant directives may also apply.*

Date of Issue: May 14th, 2021

Expiry Date: May 14th, 2030

Amy Murphy
Quality Assurance Engineer
Norsat International Inc.