

Intelligent Satellite Solutions

Sears of Excellence

LNB

KU-BAND PLL HS1000 SERIES

TYPICAL SPECIFICATIONS

Noise figure 0.7 to 0.9 dBL.O. stability $\pm 5 \text{ kHz to } \pm 2 \text{ kHz}$

(after 60 sec)

Gain Flatness (-40°C to +60°C)

1.5dBp-p @ over 27 MHz
4dBp-p @ over 500 MHz

Gain Variation @ Fixed Freq.

(-40°C to +60°C)

 Phase noise
 -75 dBc/Hz at 1 kHz

 (SSB)
 -80 dBc/Hz at 10 kHz

 -95 dBc/Hz at 100 kHz

 Input VSWR
 2.2:1

 Output VSWR
 2.2:1

FREQUENCY BANDS AVAILABLE

 Typical service
 HS1000A
 HS1000B
 HS1000C

 Input frequency (GHz)
 11.70 to 12.20
 12.25 to 12.75
 10.95 to 11.70

 L.O. frequency (GHz)
 10.75
 11.30
 10.00

6 dBp-p max

Output frequency (MHz) 950 to 1450 950 to 1450

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

950 to 1700

NOISE FIGURE 09 - 0.9 dB

08 - 0.8 dB 07 - 0.7 dB

L.O. STABILITY 5 - ±5 kHz

4 - ±4 kHz 3 - ±3 kHz 2 - ±2 kHz

LNB SERIES #



 Conversion gain
 60 dB

 Output P1dB
 5 dBm

Power requirements +15 to +24 V supplied through

center conductor of IF cable

Current drain 200 mA
Input Waveguide WR75

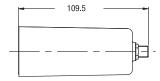
Dimensions 110 (L) x 42 (W) x 42 (H) mm

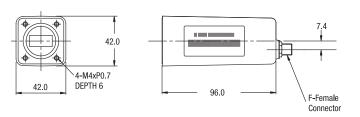
(4.3 x 1.7 x 1.7 in)

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Note: See 1000H series for ±10 kHz to ±25 kHz L.O. stabilities.

MECHANICAL DIAGRAM





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