



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

