

HS1049AF

1000 Ku-Band Single Band PLL LNB

L.O Stability: ± 4 kHz

Noise Figure: 0.9 dB

Output Connector: F: 75 Ohm



KEY SPECIFICATIONS

Band	Ku-Band
Input Frequency Band 1	11.70 - 12.20 GHz
LO Frequency 1	10.75 GHz
LO Stability	± 4 kHz
LO Type	PLL
Noise Figure Max	1.0 dB
Noise Figure Typ	0.9 dB
Number Of Onboard Los	Single-Band
Output Frequency Band 1	950 - 1450 MHz

RF SPECIFICATIONS

Conversion Gain Max	65 dB
Conversion Gain Min	55 dB
Conversion Gain Typ	60 dB
Gain Flatness (over Full Band)	≤ 5 dB p-p
Input VSWR	2.5 : 1 max.
Output P1db	+ 4 dBm min.
Output VSWR	2.2 : 1 max.
Phase Noise 100khz Offset Max	-90 dBc/Hz

ELECTRICAL SPECIFICATIONS

Current Consumption	300 mA max.
Power Requirements	+12 to +24V DC

INTERFACE SPECIFICATIONS

IF Connector	F-Connector
RF Input Connector	WR-75 waveguide grooved

M and C SPECIFICATIONS



Led Indicators

None

ENVIRONMENTAL SPECIFICATIONS

Temperature Operational

-40 to +60°C

Temperature Storage

-40 to +60°C

PHYSICAL SPECIFICATIONS

Product Height

42 mm

Product Length

110 mm

Product Weight

0.3 kg

Product Width

42 mm

LOGISTICS SPECIFICATIONS

HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package
8517690000	Made in the Republic of Korea	Richmond, BC, Canada	EAR99	140 x 50 x 50 mm

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 DIAGRAMS



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