



LNB

KA-BAND QUAD-BAND PLL 9000HI4-4

TYPICAL SPECIFICATIONS

Noise Figure (@ +25°C)	2.0 dB max.
L.O. Stability (@ over temp.)	+/- 10 KHz
Conversion Gain	58 to 65 dB
Gain Flatness (each band)	4 dBp-p max.
Phase Noise	-63 dBc/Hz (@ 100 Hz) -73 dBc/Hz (@ 1 kHz) -80 dBc/Hz (@ 10 kHz) -95 dBc/Hz (@ 100 kHz)
Input VSWR	1.3 : 1 max.
Output VSWR	2.0 : 1 max.
Image Rejection	40 dBc @ band 1 25 dBc @ band 2 0 dBc min. @ other bands



Gain Ripple (@per Channel)	+/- 1 dBp-p max.
1 dB Gain Compression Point	+10 dBm min.
Leakage (@ Input Port)	-60 dBm max.
Required Current	350 mA max.
Input waveguide flange	WR-42 grooved
IF Output Connector	F-connector (75 ohm) N (Optional) (50 ohm)
Dimensions	156 (L) x 67 (W) x 37 (H) mm (6.1 x 2.6 x 1.5 in)
Weight	550g / 19.4 oz
Operating Temperature	-40 ~ +60°C
Storage Temperature	-40 ~ +80°C
Relative Humidity	0 ~ 100% RH

FREQUENCY BANDS AVAILABLE

Model Number	Input Frequency (GHz)	L.O. (GHz)	Control Signal
EC			
Band 1	17.20 to 18.20	16.25	13V / no tone
Band 2	18.20 to 19.20	17.25	13V / 22 kHz
Band 3	19.20 to 20.20	18.25	18V / no tone
Band 4	20.20 to 21.20	19.25	18V / 22 kHz
AD			
Band 1	18.20 to 19.20	17.25	13V / no tone
Band 2	19.20 to 20.20	18.25	13V / 22 kHz
Band 3	20.20 to 21.20	19.25	18V / no tone
Band 4	21.20 to 22.20	20.25	18V / 22 kHz

HOW TO ORDER

9100HI4ADN-4

CONNECTOR

F - 75 Ohm
N - 50 Ohm

FREQUENCY

AD or EC

ISOLATOR

INTERNAL REF.

L.O. STABILITY

1: ±10kHz

LNB SERIES #

MECHANICAL DIAGRAM

