

SATCOM RECEIVER

LNB

Ka-band PLL LNB R9000I



TYPICAL SPECIFICATIONS

Noise figure

A, B, K-band	1.5dB max @+23°C
C, D, E-band	1.6dB max @+23°C

LO stability

±10, ±25, ±50 KHz

Phase noise

-60dBc/Hz @100Hz
-70dBc/Hz @1KHz
-80dBc/Hz @10KHz

Input VSWR

2.2 : 1

Output VSWR

2.0 : 1

Conversion gain

58dB typ

Gain flatness

±2dB max

Output P1dB

+5dBm min

IP3

+15dBm min

RF input level

-30dBm max

Spurious

Signal related Power supply related Harmonics

-60dBc max @-10dBm
-50dBc max @-10dBm
-50dBc max @-10dBm

LO leakage (Input)

-50dBm max

Image rejection

40dBc min

DC voltage / current

+12 to +24 V / 300mA

Input waveguide

WR-42

Output connector

N-female, F-female

Dimension

104(L) x 60(W) x 39(H) mm

Weight

400g

Operating temperature

-40 to 60°C

FREQUENCY BANDS AVAILABLE

	A band	B band	C band	D band	E band	K band
RF freq. (GHz)	18.20 - 19.20	19.20 - 20.20	20.20 - 21.20	21.20 - 22.20	21.40 - 21.70	19.80 - 20.20
LO freq. (GHz)	17.25	18.25	19.25	20.25	20.45	18.85
IF freq. (MHz)	950 - 1950	950 - 1950	950 - 1950	950 - 1950	950 - 1250	950 ~ 1350

HOW TO ORDER Ka-BAND PLL LNB

R9215IAF

Output connector	 <u>N</u> : 50Ω, <u>E</u> : 75Ω
Frequency band	 <u>A</u> : 18.20 - 19.20 GHz, <u>B</u> : 19.20 - 20.20 GHz, <u>C</u> : 20.20 - 21.20 GHz, <u>D</u> : 21.20 - 22.20 GHz, <u>E</u> : 21.40 - 21.70 GHz, <u>K</u> : 19.80 - 20.20 GHz
10MHz reference	 <u>I</u> : Internal PLL
Noise figure	 <u>15</u> : 1.5dB, <u>16</u> : 1.6dB
LO stability	 <u>2</u> : ±10 KHz, <u>3</u> : ±25 KHz, <u>4</u> : ±50 KHz
Product	 <u>R9</u> : Ka -band LNB series

SATCOM RECEIVER**OUTLINE DRAWING**