

SATCOM RECEIVER

LNB

Ka Dual-band PLL LNB

RD9000I



TYPICAL SPECIFICATIONS

Noise figure	1.5dB max @+23°C (1.6dB max @band A0, B0, C, D)	Spurious	
LO stability	±10, ±25, ±50KHz	Signal related	-60dBc max @-10dBm
Phase noise	-60dBc/Hz @100Hz -70dBc/Hz @1KHz -80dBc/Hz @10KHz -90dBc/Hz @100KHz	Power supply related	-50dBc max @-10dBm
Input VSWR	2.2 : 1 (2.5 : 1 @ band A0,B0)	Harmonics	-50dBc max @-10dBm
Output VSWR	2.0 : 1 (2.2 : 1 @ band A0,B0)	LO leakage (Input)	-50dBm max
Conversion gain	58dB typ	Image rejection	40dBc min
Gain flatness	±2dB max (±2.5dB max @ band A0,B0)	Switching voltage	+13V (Band-1), +18V (Band-2)
Output P1dB	+5dBm min	DC voltage / current	+12 to +19 V / 350mA
IP3	+15dBm min	Input waveguide	WR-42
RF input level	-30dBm max	Output connector	N-female, F-female
		Dimension	114(L) x 70(W) x 39(H) mm
		Weight	500g
		Operating temperature	-40 to 60°C

FREQUENCY BANDS AVAILABLE

	A band	A0 band	A1 band	A2 band	B band	B0 band	C band	D band	G3 band
RF freq. (GHz)	18.20-19.20	17.70-18.95	17.30-17.80	18.30-18.80	19.20-20.20	18.95-20.20	20.20-21.20	21.20-22.20	18.00-19.00
LO freq. (GHz)	17.25	16.75	16.35	17.35	18.25	18.00	19.25	20.25	17.05
IF freq. (MHz)	950-1950	950-2200	950-1450	950-1450	950-1950	950-2200	950-1950	950-1950	950-1950

HOW TO ORDER Ka DUAL-BAND PLL LNB

RD9215IABF

Output connector	 N : 50Ω, E : 75Ω
Frequency band	 Switching between bands (A : 18.20-19.20 GHz, A0 : 17.70-18.95 GHz, A1 : 17.30-17.80 GHz, A2 : 18.30-18.80 GHz, B : 19.20-20.20 GHz, B0 : 18.95-20.20 GHz, C : 20.20-21.20 GHz, D : 21.20-22.20 GHz, G3 : 18.00-19.00 GHz)
10MHz reference	 I : Internal PLL
Noise figure	 15 : 1.5dB
LO Stability	 2 : ±10KHz, 3 : ±25KHz, 4 : ±50KHz
Product	 RD9 : Ka Dual-band LNB series

SATCOM RECEIVER**OUTLINE DRAWING**