

SATCOM RECEIVER

LNB

Ka Tri-band PLL LNB RT9000IA3A4B2



TYPICAL SPECIFICATIONS

Noise figure	1.6dB max	Spurious	
LO stability	±10, ±25, ±50 KHz	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	3.0 : 1	Harmonics	-50dBc max @-10dBm
Output VSWR	2.0 : 1	Image rejection	Band-1: 40dBc min Band-2: 30dBc min Band-3: 0dBc min
Conversion gain	65dB typ	Switching voltage	Band-1: +13V Band-2: +18V Band-3: +13V / 22KHz Tone
Gain flatness	±2dB max	DC voltage / current	+12 to +19 V / 400mA
Output P1dB	+5dBm min	Input waveguide	WR-42
IP3	+15dBm min	Output connector	N-female, F-female
RF input level	-30dBm max	Dimension	113.6(L) x 70.0(W) x 39.0(H) mm
LO leakage (Input)	-50dBm max	Weight	500g
		Operating temperature	-40 to +60°C

FREQUENCY BANDS AVAILABLE

	Band-1 (A3)	Band-2 (A4)	Band-3 (B2)
RF freq. (GHz)	17.3 - 18.3	18.3 - 19.3	19.3 - 20.2
LO freq. (GHz)	16.35	17.35	18.35
IF freq. (MHz)	950 - 1950	950 - 1950	950 - 1850

HOW TO ORDER Ka TRI-BAND PLL LNB

RT9216IA3A4B2F

	* Other frequency bands can be available upon request.
Output connector	<u>N</u> : 50Ω, <u>F</u> : 75Ω
Frequency band	Switching between bands (<u>A3</u> : 17.3 - 18.3 GHz, <u>A4</u> : 18.3 - 19.3 GHz, <u>B2</u> : 19.3 - 20.2 GHz)
10MHz reference	<u>I</u> : Internal PLL
Noise figure	<u>16</u> : 1.6dB
LO stability	<u>2</u> : ±10KHz, <u>3</u> : ±25KHz, <u>4</u> : ±50KHz
Product	<u>RT9</u> : Ka Tri-band LNB series

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OUTLINE DRAWING

