

SATCOM RECEIVER

LNB

Ka Tri-band Auto Ref LNB RT9315A-ISO



TYPICAL SPECIFICATIONS

Noise figure	1.5dB max @+23°C	LO leakage (Input)	-37dBm max
Phase noise	-60dBc/Hz @100Hz -70dBc/Hz @1KHz -80dBc/Hz @10KHz -93dBc/Hz @100KHz	Spurious Signal related Power supply related Harmonics	-60dBc max @-10dBm -50dBc max @-10dBm -50dBc max @-10dBm
Input return loss	14dB min	Image rejection	Band-1: 40dBc min Band-2: 40dBc min Band-3: 40dBc min
Output return loss	10dB min	Switching voltage	Band-1: +13V (+11 to +14VDC) Band-2: +13V / 22KHz Tone Band-3: +18V (+16 to +19VDC)
Conversion gain	55dB min	DC voltage / current	+11 to +24 V / 350mA
Gain stability over temp	5dB max	Input waveguide	WR-42
Gain flatness	1.5dBp-p in any 100MHz 3.0dBp-p in any 250MHz	Output connector	N-female, F-female
Output P1dB	+5dBm min	Dimension	135.8(L) x 70(W) x 37(H) mm
IP3	+15dBm min	Weight	500g
Internal reference stability	±1.5ppm (over temperature) ±3.5ppm (long-term stability)	Operating temperature	-40 to 60°C
External reference	10MHz, -5 to +5 dBm	Humidity	up to 100% condensing

FREQUENCY BANDS AVAILABLE

	Band-1	Band-2	Band-3
RF freq. (GHz)	17.70 - 18.70	18.45 - 19.45	19.20 - 20.20
LO freq. (GHz)	16.75	17.50	18.25
IF freq. (MHz)	950 - 1950	950 - 1950	950 - 1950

HOW TO ORDER Ka TRI-BAND AUTO REF LNB

RT9315AN-ISO

Input interface	ISO: Isolator option
Output connector	N: 50Ω, E: 75Ω
10MHz reference	A: Automatic switch to internal PLL when Ext. Ref. is not available
Noise figure	15: 1.5dB
LO stability	3: 1.5ppm
Product	RT9: Ka Tri-band LNB series

SATCOM RECEIVER**OUTLINE DRAWING**