



Ka-Band Externally Referenced LNB

RPLLNB-20.2-21.2-60d-s8



ELECTRICAL SPECIFICATIONS

NO	ITEM	SPECIFICATIONS
-1	RF Input Frequency	20.2 to 21.2GHz
-2	IF Output Frequency	1000 to 2000MHz
-3	Local Frequency	19.2GHz
-4	Local Frequency Stability	Phase locked to external 10MHz reference
-5	10MHz Reference	@ Multiplexed on the IF coaxial connector [Input level] -5 to +5dBm [Phase Noise] -135dBc/Hz max. @100Hz -148dBc/Hz max. @1KHz -152dBc/Hz max. @10KHz -155dBc/Hz max. @100KHz
-6	Local Phase Noise	-62dBc/Hz max. @100Hz -72dBc/Hz max. @1KHz -82dBc/Hz max. @10KHz -92dBc/Hz max. @100KHz -102dBc/Hz max. @1MHz
-7	Local Leakage	-60dBm max at waveguide flange.
-8	Noise Figure	1.7dB @ +23°C
-9	Gain	60dB ±4dB Over temp. and freq.
-10	Gain Flatness	±2.0dB max. Over band
-11	Gain Stability	±1.0dB max. Over 24hr at +25°C.
-12	Input VSWR	1.3:1 max.
-13	Output VSWR	1.8:1 max.
-14	Image Rejection	-45dBc max.
-15	P1dB	+15dBm min.
-16	Spurious	The sum all spurious power shall be 20dB below the power of the thermal output noise in a 1000MHz BW.
-17	Input DC Power	+15 to +24VDC, 400mA Multiplexed on a single coaxial connector with the IF and 10MHz reference signal.
-18	Input Interface	WR-42 waveguide flange with O-ring and threaded screw holes.
-19	Output Interface	50Ω, N-type female coaxial connector.
-20	DC Current	400mA max.

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code-s8

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MECHANICAL SPECIFICATIONS

NO	ITEM	SPECIFICATIONS
-1	Size	(L)153mm x (W)77mm x (H)51mm
-2	Weight	approx. 700g
-3	Color	White, Munsel N9.5, semi gloss

ENVIRONMENTAL SPECIFICATIONS

NO	ITEM	SPECIFICATIONS
-1	Operating Temperature	-40 to +60°C
-2	Operating Altitude	10,000 ft ASL
-3	Operating Relative Humidity	100%, condensing
-4	Non-operating Temperature	-50 to +70°C
-5	Non-operating Altitude	50,000 ft. ASL
-6	F Shock	20g, 11ms, half sine
-7	Vibration	MIL-STD-810E, method 514-4