

SATCOM RECEIVER

LNB

Ka Quad-band EXT LNB RQ9000X-1



TYPICAL SPECIFICATIONS

Noise figure	2.2dB max	Spurious	
LO stability	Phase locked to external reference	Signal related	-50dBc max @-10dBm
Phase noise	-60dBc/Hz @100Hz -70dBc/Hz @1KHz -80dBc/Hz @10KHz -90dBc/Hz @100KHz	Power supply related	-50dBc max @-10dBm
Input VSWR	3.5 : 1 (w/o isolator) 1.5 : 1 (w/ isolator)	Harmonics	-50dBc max @-10dBm
Output VSWR	2.0 : 1	Image rejection	Band-1: 40dBc min Band-2: 40dBc min Band-3: 30dBc min Band-4: 15dBc min
Conversion gain	58dB typ	Switching voltage	Band-1: +13V Band-2: +13V / 22KHz Tone Band-3: +18V Band-4: +18V / 22KHz Tone
Gain flatness	±2.5dB max	DC voltage / current	+12 to +24 V / 400mA
Output P1dB	+5dBm min	Input waveguide	WR-42
IP3	+15dBm min	Output connector	N-female, F-female
External reference	10MHz, -5 to +5 dBm	Dimension	
RF input level	-30dBm max	w/o isolator	114.0(L) x 70.0(W) x 39.0(H) mm
LO leakage (Input)	-50dBm max	w/ isolator	135.8(L) x 70.0(W) x 39.0(H) mm
		Weight	500g
		Operating temperature	-40 to +60°C

FREQUENCY BANDS AVAILABLE

	Band-1	Band-2	Band-3	Band-4
RF freq. (GHz)	17.2 - 18.2	18.2 - 19.2	19.2 - 20.2	20.2 - 21.2
LO freq. (GHz)	16.25	17.25	18.25	19.25
IF freq. (MHz)	950 - 1950	950 - 1950	950 - 1950	950 - 1950

HOW TO ORDER Ka QUAD-BAND EXT LNB

RQ9022XF-1-ISO

Input interface	 None : w/o isolator ISO : w/ isolator
Output connector	 N : 50Ω, F : 75Ω
10MHz reference	 X : External reference
Noise figure	 22 : 2.2dB
Product	 RQ9 : Ka Quad-band LNB series

SATCOM RECEIVER

OUTLINE DRAWING

