

SATCOM RECEIVER

LNB

X-band PLL LNB R7000I, R8000I



TYPICAL SPECIFICATIONS

Noise Figure	0.7 to 0.9 dB @+23°C	Spurious	
LO stability	±5 to ±25 KHz	Signal related	-50dBc max @-10dBm
Phase noise	-65Hz @100Hz -75dBc/Hz @1KHz -85dBc/Hz @10KHz -95dBc/Hz @100KHz -110dBc/Hz @1MHz	Power supply related	-50dBc max @-10dBm
Input VSWR	2.0 : 1	Harmonics	-40dBc max @-10dBm
Output VSWR	2.0 : 1	LO leakage (Input)	-50dBm max
Conversion gain	60dB typ	Image rejection	40dBc min
Gain flatness	±2dB max	DC voltage / current	+13 to +24 V / 350mA
Output P1dB	+15dBm min	Input waveguide	WR-112
IP3	+25dBm min	Output connector	N-female, F-female
RF input level	-30dBm max	Dimension	114.0(L) x 65.6(W) x 47.0(H) mm
		Weight	600g
		Operating temperature	-40 to +60°C

FREQUENCY BANDS AVAILABLE

	R7000I	R8000I
RF freq. (GHz)	7.25 - 7.75	7.90 - 8.40
LO freq. (GHz)	6.30	6.95
IF freq. (MHz)	950 - 1450	950 - 1450

HOW TO ORDER X-BAND PLL LNB

R7108IF

Output connector	 <u>N</u> : 50Ω, <u>E</u> : 75Ω
10MHz reference	 <u>I</u> : Internal PLL
Noise figure	 <u>07</u> : 0.7dB <u>08</u> : 0.8dB <u>09</u> : 0.9dB
LO stability	 <u>1</u> : ±5KHz <u>2</u> : ±10KHz <u>3</u> : ±25KHz
Product	 <u>R7</u> , <u>R8</u> : X-band LNB series

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OUTLINE DRAWING

