

SATCOM RECEIVER

LNB

C-band PLL LNB

R3000I



TYPICAL SPECIFICATIONS

Noise temperature	20K, 30K typ @+23°C	Spurious	
LO stability	±5 to ±50 KHz	Signal related	-50dBc max @-10dBm
Phase noise	-78dBc/Hz @1KHz -88dBc/Hz @10KHz -100dBc/Hz @100KHz	Power supply related	-50dBc max @-10dBm
		Harmonics	-40dBc max @-10dBm
Input VSWR	2.2 : 1	DC voltage / current	+12 to +24 V / 250mA
Output VSWR	2.2 : 1	Input waveguide	CPR-229G
Gain	62dB typ	Output connector	N-female, F-female
Output P1dB	+5dBm min	Dimension	99.1(L) x 98.8(W) x 75.0(H) mm
RF input level	-30dBm max	Weight	600g
		Operating temperature	-40 to +60°C

FREQUENCY BANDS AVAILABLE

Sub-band	A-band	B-band	C-band	D-band	E-band	F-band	I-band
RF freq. (GHz)	3.40 - 4.20	3.40 - 3.70	3.625 - 4.20	3.385 - 3.45	3.70 - 4.20	3.80 - 4.20	4.50 - 4.80
LO freq. (GHz)	5.15	4.65	5.15	4.40	5.15	5.15	5.95
IF freq. (MHz)	950 - 1750	950 - 1250	950 - 1525	950 - 1015	950 - 1450	950 - 1350	1150 - 1450

HOW TO ORDER C-BAND PLL LNB

R3130IAF

Output connector	 <u>N</u> : 50Ω, <u>E</u> : 75Ω
Frequency band	 <u>A</u> : 3.40 - 4.20 GHz, <u>B</u> : 3.40 - 3.70 GHz, <u>C</u> : 3.625 - 4.20 GHz, <u>D</u> : 3.385 - 3.45 GHz, <u>E</u> : 3.70 - 4.20 GHz, <u>F</u> : 3.80 - 4.20 GHz, <u>I</u> : 4.50 - 4.80 GHz
10MHz reference	 <u>I</u> : Internal PLL
Noise Temperature	 <u>20</u> : 20K <u>30</u> : 30K
LO stability	 <u>1</u> : ±5KHz, <u>2</u> : ±10KHz, <u>3</u> : ±25KHz, <u>4</u> : ±50KHz
Product	 <u>R3</u> : C-band LNB series

SATCOM RECEIVER**OUTLINE DRAWING**