

**SATCOM RECEIVER**

# LNB

## C-band PLL LNB R3000I



### TYPICAL SPECIFICATIONS

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

### FREQUENCY BANDS AVAILABLE

Sub-band	A-band	B-band	C-band	D-band	E-band	E0-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 .....	<b>N</b> : 50Ω, <b>E</b> : 75Ω
Frequency band .....	<b>A</b> : 3.40 - 4.20 GHz, <b>B</b> : 3.40 - 3.70 GHz, <b>C</b> : 3.625 - 4.20 GHz, <b>D</b> : 3.385 - 3.45 GHz, <b>E</b> : 3.70 - 4.20 GHz, <b>E0</b> : 3.80 - 4.20 GHz, <b>I</b> : 4.50 - 4.80 GHz
10MHz reference .....	<b>I</b> : Internal PLL
Noise Temperature .....	<b>30</b> : 30K
LO stability .....	<b>1</b> : ±5KHz, <b>2</b> : ±10KHz, <b>3</b> : ±25KHz, <b>4</b> : ±50KHz
Product .....	<b>R3</b> : C-band LNB series

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### OUTLINE DRAWING

