

**SATCOM RECEIVER**

# LNB

## C-band PLL LNB for 5G R3000I-5GX



### TYPICAL SPECIFICATIONS

<b>Noise temperature</b>	40K typ @+23°C	<b>Image rejection</b>	40dBc min
<b>LO stability</b>	±5 to ±25 KHz	<b>Spurious</b>	
<b>Phase noise</b>	-78dBc/Hz @1KHz -88dBc/Hz @10KHz -100dBc/Hz @100KHz	<b>Signal related</b>	-60dBc max @-10dBm
<b>Input VSWR</b>	2.2 : 1	<b>Power supply related</b>	-50dBc max @-10dBm
<b>Output VSWR</b>	2.2 : 1	<b>Band rejection</b>	30dB @100MHz offset
<b>Gain</b>	58dB typ	<b>DC voltage / current</b>	+12 to +24 V / 280mA
<b>Gain flatness</b>	±1.5dB over any 36MHz ±2.0dB over full band	<b>Input waveguide</b>	CPR-229G
<b>Gain stability</b>	±2dB over -40~+60 °C	<b>Output connector</b>	N-female, F-female
<b>Output P1dB</b>	+15dBm min	<b>Dimension</b>	99.1(L) x 98.8(W) x 75.0(H) mm
<b>5G input level</b>	No degradation under -25dBm 5G signal @100MHz offset	<b>Weight</b>	600g
		<b>Operating temperature</b>	-40 to +60°C

### FREQUENCY BANDS AVAILABLE

Sub-band	E-band	E0-band	H-band
RF freq. (GHz)	3.70 - 4.20	3.80 - 4.20	4.00 - 4.20
LO freq. (GHz)	5.15	5.15	5.15
IF freq. (MHz)	950 - 1450	950 - 1350	950 - 1150

### HOW TO ORDER C-BAND PLL LNB for 5G

## R3140IHF-5GX

Application .....	<b>5GX</b> : 5G interference rejection
Output connector .....	<b>N</b> : 50Ω, <b>E</b> : 75Ω
Frequency band .....	<b>E</b> : 3.70 - 4.20 GHz, <b>E0</b> : 3.80 - 4.20 GHz, <b>H</b> : 4.00 - 4.20 GHz
10MHz reference .....	<b>I</b> : Internal PLL
Noise Temperature .....	<b>40</b> : 40K
LO stability .....	<b>1</b> : ±5KHz, <b>2</b> : ±10KHz, <b>3</b> : ±25KHz
Product .....	<b>R3</b> : C-band LNB series

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### OUTLINE DRAWING

