

SATCOM RECEIVER

LNB

C-band PLL LNB for 5G

R3000I-5G



TYPICAL SPECIFICATIONS

Noise temperature	30K @+23°C	Gain	62dB typ
LO stability	±5 to ±50 KHz	Gain flatness	±1.5dB over any 36MHz ±2.0dB over full band
Phase noise	-78dBc/Hz @1KHz -88dBc/Hz @10KHz -100dBc/Hz @100KHz	Gain stability	±2dB over -40~+60 °C
Input VSWR	2.2 : 1	Image Rejection	40dBc min
Output VSWR	2.2 : 1	Spurious	
RF input level	-30dBm max with no damage	Signal related	-60dBc max @-10dBm
Output P1dB	+15dBm min	Power supply related	-50dBc max @-10dBm
5G input level	no degradation at	Harmonics	-40dBc max @-10dBm
R3000IC-5G	-55dBm max @3.525GHz	DC voltage / current	+12 to +24 V / 280mA
R3000IE-5G	-55dBm max @3.6GHz	Input waveguide	CPR-229G
R3000IE1-5G	-55dBm max @3.654GHz	Output connector	N-female, F-female
R3000IF-5G	-55dBm max @3.7GHz	Dimension	99.1(L) x 98.8(W) x 75.0(H) mm
R3000IG-5G	-55dBm max @3.8GHz	Weight	600g
R3000IH-5G	-55dBm max @3.9GHz	Operating temperature	-40 to +60°C

FREQUENCY BANDS AVAILABLE

Sub-band	C-band	E-band	E1-band	F-band	G-band	H-band
RF freq. (GHz)	3.625 - 4.20	3.70 - 4.20	3.754 - 4.20	3.80 - 4.20	3.90 - 4.20	4.00 - 4.20
LO freq. (GHz)	5.15	5.15	5.15	5.15	5.15	5.15
IF freq. (MHz)	950 - 1525	950 - 1450	950 - 1396	950 - 1350	950 - 1250	950 - 1150

HOW TO ORDER C-BAND PLL LNB for 5G

R3130IEN-5G

Application	5G : 5G interference rejection
Output connector	N : 50Ω, F : 75Ω
Frequency band	C : 3.625 - 4.20 GHz, E : 3.70 - 4.20 GHz, E1 : 3.754 - 4.20 GHz, F : 3.80 - 4.20 GHz, G : 3.90 - 4.20 GHz, H : 4.00 - 4.20 GHz
10MHz reference	I : Internal reference
Noise Temperature	30 : 30K
LO stability	1 : ±5KHz, 2 : ±10KHz, 3 : ±25KHz, 4 : ±50KHz
Product	R3 : C-band LNB series

SATCOM RECEIVER**OUTLINE DRAWING**