

SATCOM RECEIVER

LNB

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



TYPICAL SPECIFICATIONS

Noise temperature	40K typ @+23°C	Gain	58dB typ
LO stability	±5 to ±25 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	
Output P1dB	+15dBm min	Signal related	-60dBc max @-10dBm
Band rejection	30dB @100MHz offset	Power supply related	-50dBc max @-10dBm
5G input level	No degradation under -25dBm	DC voltage / current	+12 to +24 V / 280mA
R3000IC-5G	-25dBm max @3.525GHz	Input waveguide	CPR-229G
R3000IE-5G	-25dBm max @3.6GHz	Output connector	N-female, F-female
R3000IE1-5G	-25dBm max @3.654GHz	Dimension	99.1(L) x 98.8(W) x 75.0(H) mm
R3000IF-5G	-25dBm max @3.7GHz	Weight	600g
R3000IG-5G	-25dBm max @3.8GHz	Operating temperature	-40 to +60°C
R3000IH-5G	-25dBm max @3.9GHz		

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

R3140IEF-5GX

Application	5GX : 5G interference rejection
Output connector	N : 50Ω, E : 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	40 : 40K
LO stability	1 : ±5KHz, 2 : ±10KHz, 3 : ±25KHz
Product	R3 : C-band LNB series

SATCOM RECEIVER**OUTLINE DRAWING**