

## C-Band Ext. Ref. PLL LNB

**Features:**

- **1dB Gain Compression +10dBm**
- **Suitable for high data rate digital communication applications**
- **Low power consumption**
- **Low noise**

**TYPICAL SPECIFICATIONS SPCR3400 series**

-1	RF Input Frequency	3.4 to 4.2 GHz
-2	IF Output Frequency	950 to 1750 MHz
-3	Local Frequency	5.15 GHz
-4	Local Frequency Stability	Phase locked to external reference
-5	Local Oscillator Leakage	-45 dBm max. @ Waveguide input.
-6	Requirement for External Reference	Supplied through the center conductor of IF cable [Frequency] 10MHz(sine wave) [Input Level] 0 to -10dBm @ IF out [Phase Noise] -144dBc/Hz max. @ 1KHz -154dBc/Hz max. @ 10KHz -154dBc/Hz max. @ 100KHz
-7	Local Phase Noise:	Offset Frequency      Phase Noise 1 kHz                      -75 dBc/Hz max. 10 kHz                     -85 dBc/Hz max. 100 kHz                    -95 dBc/Hz max.
-8	Noise Temperature (+25°C)	20K Typ, 30K Max
-9	Gain	55 to 70 dB Over Frequency & Temperature
-10	Gain Ripple	1 dB p-p max per 36 MHz segment across the operating freq band
-11	Input VSWR	3.0: 1 max
-12	Output VSWR	2.5:1 max. @ 75Ω
-13	Image Rejection	-45 dBc max.
-14	1 dB Gain Compression Point	+10 dBm min.
-15	Spurious in Rx Band	-130dBm max. @ waveguide input excluding Rx out +/- 1MHz measured at RF Input power -85dBm
-16	Input Voltage	+12 to +24 V supplied through center conductor of the IF cable.
-17	Current	300 mA max.
-18	Size	(L)144 mm x (W)68 mm x (H)39 mm (5.6 x 2.6 x 1.5 in)
-19	Weight	approx. 580 g (18 oz)
-20	Operating Temperature	-40°C to +60°C
-21	Storage Temperature	-40°C to +80°C
-22	Input Interface	CPR-229G, Waterproof (mated with matching flange and gasket).
-23	Output Interface / Ordering information	Standard F-Type, 75Ω, female, Waterproof Model SPCR3400AF Optional N-Type, 50Ω, female, Waterproof Model SPCR3400AN

