



- Low Power Consumption / Low Noise
- 1dB Gain Compression +10dBm
- 3 Year GeoSat Product Warranty
- Suitable for high data rate digital communication applications

## C-Band PLL Low Noise Block (LNB)

Model: GSMLCIF337



Section	Item	Specification
Power Requirement	Voltage	+12 ~ +24V DC
	Required Current	250MA max
Input Characteristics	Frequency Range	3.4 ~ 4.2GHz
	Input VSWR	3.0 : 1 max.
	Noise Temperature (+25oC)	20K Typ. 30K max.
	Input Interface	CPR-229G
Output Characteristics	Frequency Range	950 ~ 1750MHz
	Output VSWR	2.5 : 1 max. @ 75Ω
	Gain Flatness	55 to 70 dB Over Frequency & Temperature
	Conversion Gain	60 dB typ.
	Gain Stability	1dBp-p max per 36MHZ segment across the frequency band
	Image Rejection	45 dBc min.
	1dB Gain Compression Point	+10 dBm min.
	Spurious in Rx Band	-130dBm max. @ waveguide input excluding Rx out + 1 MHz measured at RF Input power -85dBm
	IF Output Connector	F-Type, 75Ω, Female / N-Type, 50Ω, Female
Local Oscillator	Local Frequency	5.15GHz
	L.O. Stability ▼	Standard 2.5ppm. max. @-40°C to +60°C, +25°C Optional 1ppm. max. @-40°C to +60°C, +25°C
	Local Frequency Initial Offset	±1ppm max. @ +25°C
	Local Oscillator Leakage	-45 dBm max. @ waveguide input.
	Phase Noise (SSB) ►	< -80dBc / Hz@1kHz; < -85dBc / Hz@10kHz; < -95dBc / Hz@100kHz
Mechanical	Dimension (mm)	(L)144 mm x (W)68 mm x (H)39 mm (5.6 x 2.6 x 1.5 in)
	Weight / Painting	approx. 500g / White Color
Operating Temperature / Storage Temperature		- 40°C ~ + 60°C / - 40°C ~ + 75°C
Relative Humidity / Altitude		Up to 100%, condensation and frost / Up to 10,000 feet @ operating

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