

LO1001 C-BAND LOCAL OSCILLATOR



GENERAL DESCRIPTION

LO1001 is a low phase noise, voltage-controlled oscillator for use with C-band transceivers.

LO1001 features a very low phase noise ceramic resonator oscillator with -160dBc/Hz phase noise floor. Device consumes 5W typically.

SPECIFICATIONS

PARAMETER	LIMIT
Frequency Range	C-Band
Output Power	16dBm typ
Tuning Voltage	5V to 25V
Harmonics	-25dBc
Spurious	-60dBc
Phase Noise	-100dBc/Hz @ 10kHz -124Bc/Hz @ 100kHz -142dBc/Hz @ 1MHz -157dBc/Hz Noise Floor
DC Power Consumption	5W max
Operational Temp Range	5°C to 65°C (NOTE-1)
Storage Temp Range	0°C to 125°C (NOTE-1)

Note 1: It is assumed that the device will sit within inside a conditioned enclosure. Consult factory for conditions otherwise.

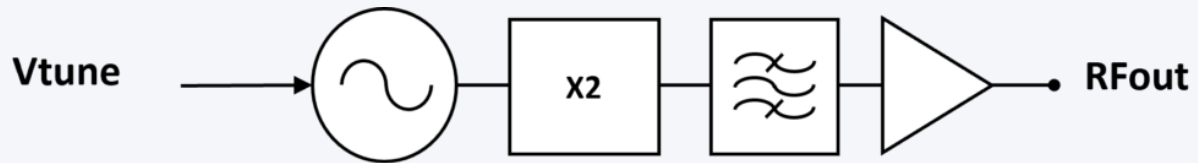
KEY FEATURES

- 5-6 GHz Output Frequency Range
- +16dBm output power
- P/N -100dBc/Hz @ 10kHz offset
- P/N -142dBc/Hz @ 1MHz offset
- 60MHz/V Tuning Sensitivity

APPLICATIONS

- Excellent Phase Noise
- High Output Power – no extra LO drive needed

BLOCK DIAGRAM



MECHANICAL

