

# LO1001



## C-BAND LOCAL OSCILLATOR



### 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.

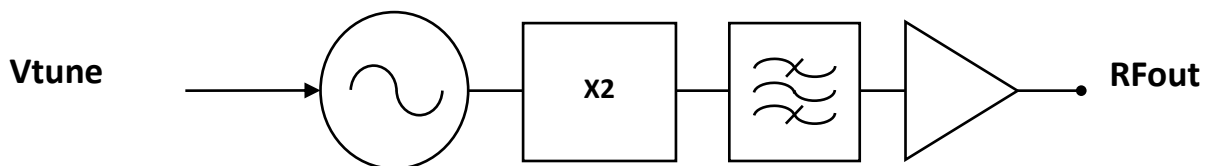
### FEATURES

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

### SPECS AT A GLANCE

- 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

### BLOCK DIAGRAM

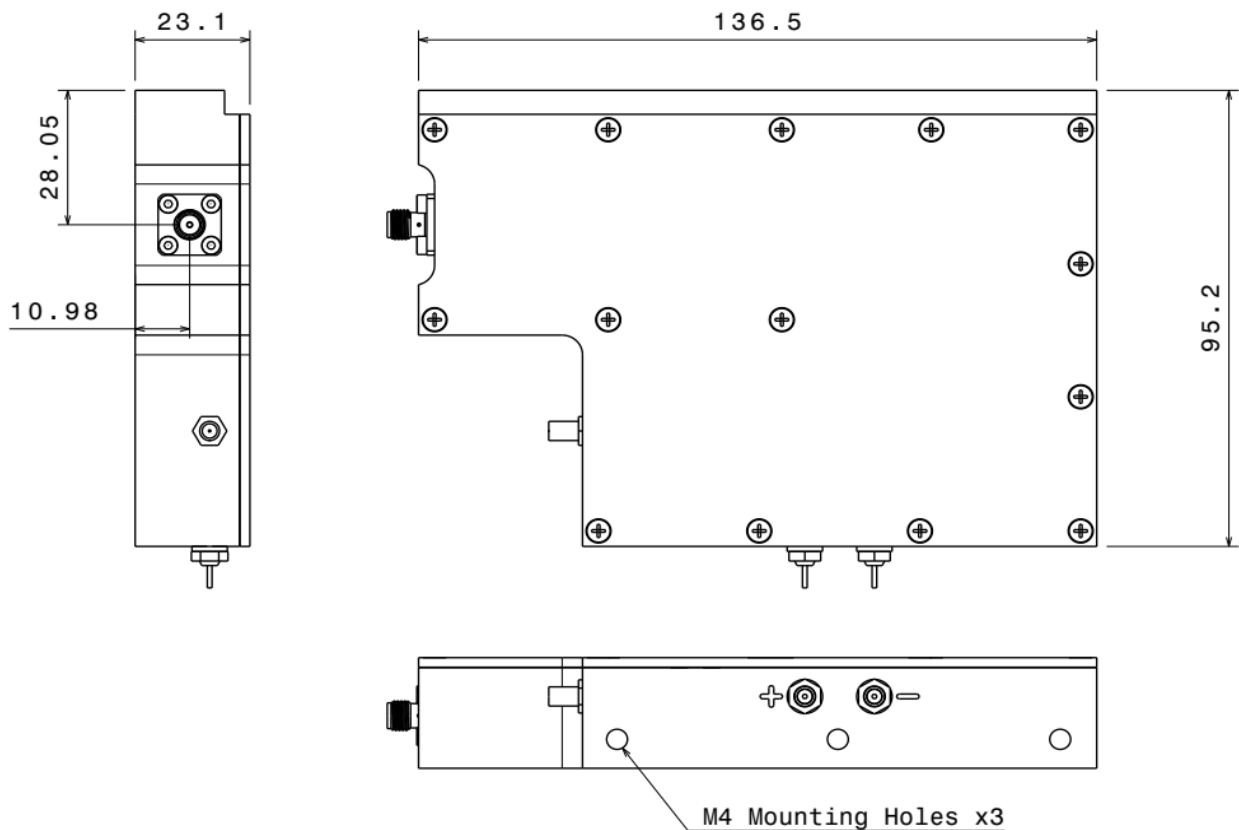


## SPECIFICATIONS

Parameter	Limit
Frequency Range	C-Band
Output Power	16dBm typ
Tuning Voltage	5V to 25V
Harmonics	-25dBc
Spurious	-60dBc
Phase Noise	-100dBc/Hz @ 10kHz -124dBc/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.

## MECHANICAL



## Designed and Manufactured in TÜRKİYE

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### **IMPORTANT**

- Specifications subject to change without further notice.
- Data given in this document provides its typical performance. Actual device performance is guaranteed by specifications called out by “customer-specific” part number and the associated acceptance test procedure.