TCXO1000IM-9.6MHz
TCXO with mechanical frequency adjust

Features

9.6 MHz Operating Frequency
Better than +/- 0.6 PPM stability from -42C to70C
25.0 mm x 15.0 mm x 5.5 mm SMD Package
Mechanical Frequency Adjust

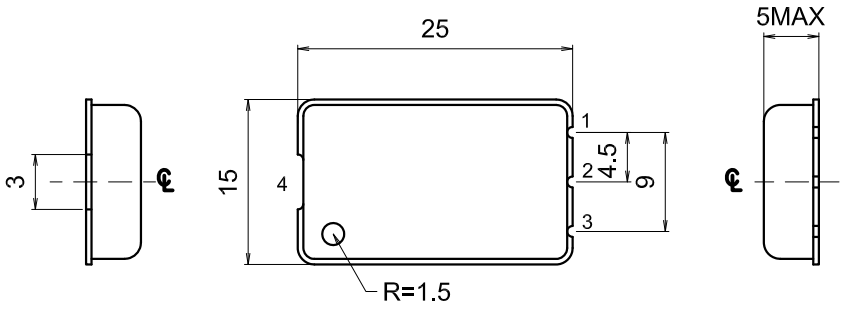
Typical Applications

Test Instrumentation
Microwave Communications
Mobile Radio

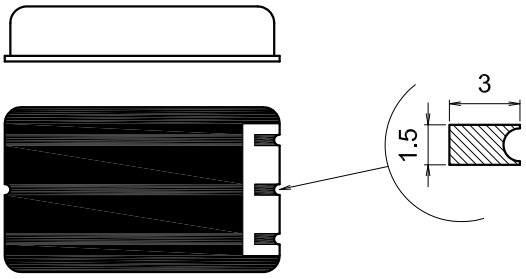
Description

The TCXO1000IM platform is an integrated module design approach incorporating the latest temperature compensation technology onto a custom SMD package.

Mechanical Drawing and PIN Connections



1 OUT
2 VCO
3 GND
4 GND



UNIT:mm

Specification

TCXO Specification		Sym.	Condition	Value			Unit	Note
				Min.	Typ.	Max.		
Operational Frequency Range		f_0			9.6		MHz	
Sine Wave 50 ohm Load	Load			45	50	55	Ohm	
	Power Out			1.5		4.0	dBm	
	Harmonics					-30	dBc	
Power supply								
Voltage		V_{cc}		4.5	5.0	5.5	V	
Current consumption						8	mA	
Frequency stability								
vs. temperature			From -42C to 70C	- 0.6		+ 0.6	PPM	
Tolerance at 25C ;			24 hrs after REFLOW	- 1.0		+ 1.0	PPM	
First Year Aging			After 30 days operation	- 0.6		+ 0.6	PPM	
SSB Phase noise At 9.6 MHz sine wave								
			1KHz			-135	dBc/Hz	
			10KHz				dBc/Hz	
			100KHz				dBc/Hz	
			1MHz			-155	dBc/Hz	

Environmental

Parameter	Reference Std.	Test Condition
Vibration Test	MIL-STD-883 2007 Condition A JESD22-B103 Condition 1	10~2000Hz, 1.52mm, 20G, each axis for 4 hrs
Thermal Shock	MIL-STD-883 1010 Condition B JESD22-A104 Condition B	-55℃, 125℃; soak time is 10 mins, with total 200 cycles
Mechanical Shock	MIL-STD-883 2002 Condition B JESD22-B104 Condition B	1500G, half-sine, 0.5ms, each axis for 3 times.
Storage temperature		-55℃ to +85 ℃