

Features

9.6 MHz Operating Frequency
 Better than +/- 0.6 PPM stability from -20C to 70C
 25.0 mm x 15.0 mm x 5.0 mm SMD Package
 Mechanical Frequency Adjust
 50 ohm sine output

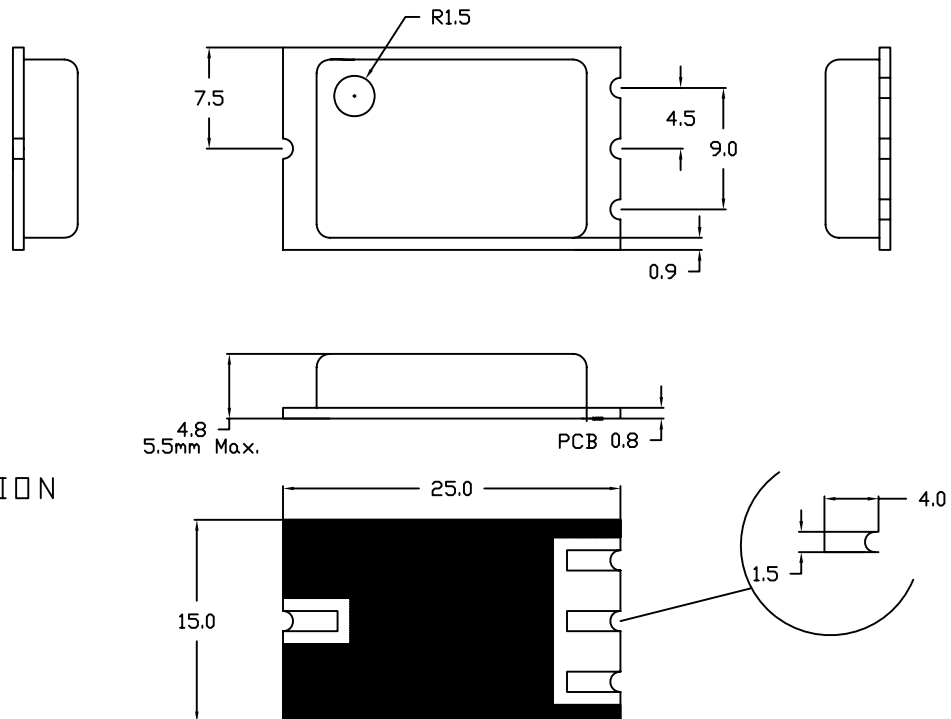
Typical Applications

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



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 -20C to 70C	- 0.6		+ 0.6	PPM		
Tolerance at 25C ;			24 hrs after REFLOW	- 1.0		+ 1.0	PPM		
Mechanical Frequency Adjust									
			Via trimmer via in cover		+/- 5.0		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
Storage temperature									
Storage temperature				-55 °C to +85 °C					