

TCXOBE-001-80MHz

Low Noise sine out

13.2 x 20.8 x 10.0 mm DIP package □□□□

Features

Stability: ± 1.5 ppm over -20°C to $+70^{\circ}\text{C}$

80 MHz: Sine wave: 3 dBm min

Phase Noise :

-135dBc/Hz or better at 1KHz

-145dBc/Hz or better at 10KHz

13.2 mm x 20.8 mm x 10.0 mm

Hermetically Sealed Package

Typical Applications

Synthesizer Reference

Test Instruments

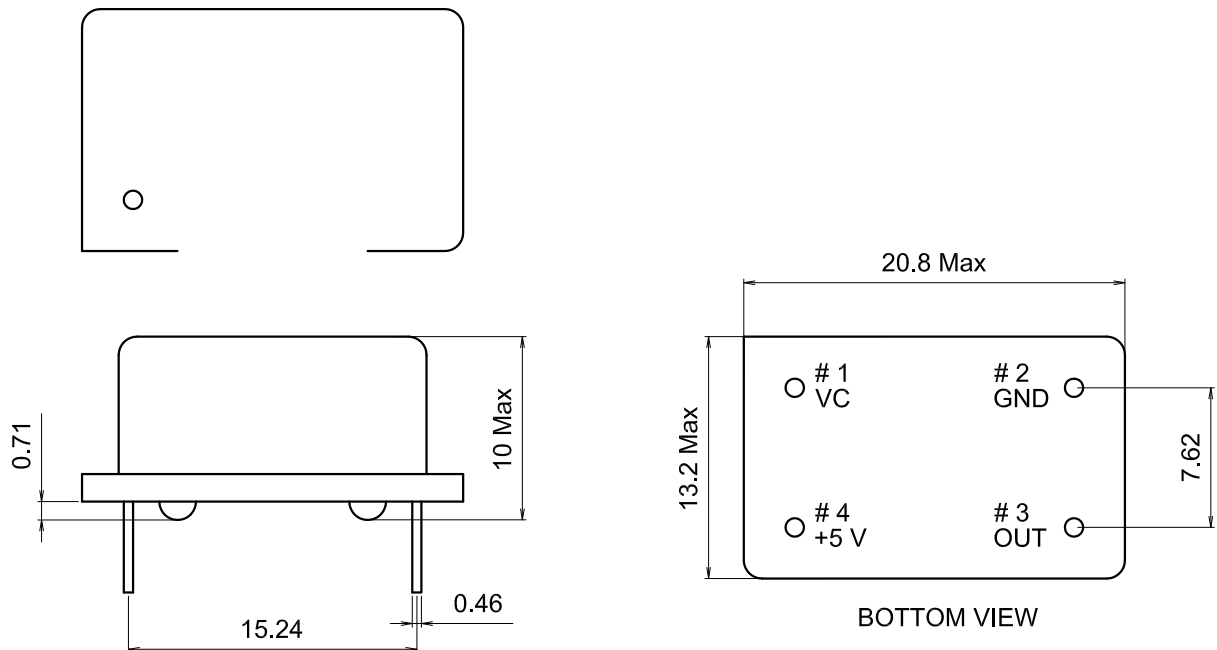
Microwave Communications LO

Weather Radar

Description

The TCXOBE-001-80MHz device offers excellent frequency stability and low phase noise performance based on analog compensation techniques and suitable for harsh environments in a hermetically sealed package.

Mechanical Drawing and PIN Function



Specifications

#	TCXO Specification	Sym.	Condition	Value			Unit	Included in the test data
				Min.	Typ.	Max.		
1.1	Nominal Frequency	F _o		80.000000			MHz	
1.2			+25 °C +/- 5 °C	-250.0		+250.0	ppb	V _c : 2.5V
RF output								
2.1	Wave form			Sine wave				
2.2	Output Power			3.0			dBm	
2.3	Harmonics		Sub harmonics -45 dBc			-25	dBc	harmonics
2.4	Load				50		Ohms	
Frequency control								
3.1								
3.2	Control voltage range	V _c		0.0	2.5	5.0	V	
3.3								
3.4	Slope			Positive				
3.5	Pull range			+/- 10.0			PPM	
3.6								
Power supply								
4.1	Voltage	V _{cc}		4.75	5	5.25	V	
4.2								
4.3	DC Current					30	mA	
Frequency stability								
5.1	vs. temperature		From -20 °C to +70 °C	-1.500		+1.500	ppm	
5.2			Includes voltage and load variation					
6	Aging	per year	after 30 days of operation at time of shipment			+/- 1.0	ppm	
7.1	SSB Phase Noise		at 1 Hz offset				dBc/Hz	
			at 10 Hz offset					
			at 100 Hz offset			-115		
			at 1 kHz offset			-135		
7.2			at 10 kHz offset			-145		
Maximum ratings, environmental, mechanical conditions.								
Operating temperature range		-20 °C to +70 °C						
Storage temperature range		-55 °C to +95 °C						