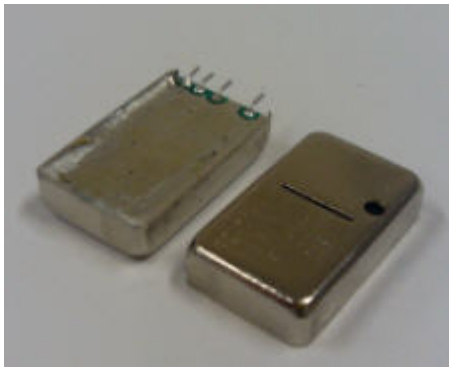
Features

25.600 MHz Operating Frequency
Better than +/- 0.100 ppm at 25C +/- 3C
Better than +/- 0.300 ppm from -40C to 65C
Smooth sine wave output
25.75 mm x 15.45 mm x 5.60 mm SMD Package
Electrical and Mechanical Frequency Adjust
Very Good Phase Noise

Picture of Part



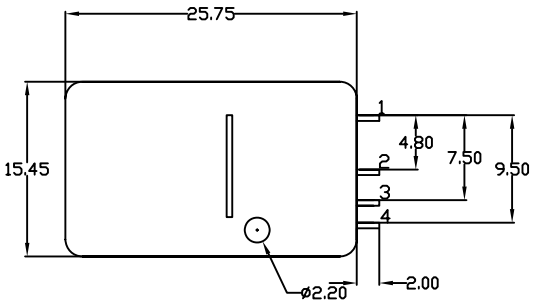
Typical Applications

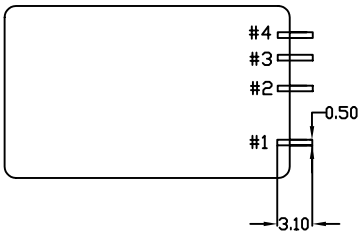
Test Instrumentation
Microwave Communications
Mobile Radio

Description

The TCXO2515KP-25.6MHz-A platform is an advanced discrete oscillator circuit design incorporating the latest low noise thermistor compensation techniques onto a custom SMD package including both electronic and mechanical frequency adjustment for optimal test on the radio board.

Mechanical Drawing and PIN Function





PIN	CONNECTION
#1	OUTPUT
#2	Vcc
#3	Vctrl
#4	GND

Specifications

TCXO2515KP-25.6MHz-A		Sym.	Condition	Value Min.	Value Typ.	Value Max.	Unit	Note
Operational Frequency Range		f_0			25.600000		MHz	
Sine Wave 300 ohm Load	Load					300	Ohms	
	Output Level			2.0			V pk-pk	
Power Supply				4.75	5.00	5.25	Volts	
			DC Current Consumption			5	mA	
Frequency Tolerance (@ 25C +/- 3C with Vcontrol = 2.25 volts AFTER Mechanical Frequency Adjustment in customer board)								
				-0.100		+0.100	PPM	
Electronic Frequency Mechanical Trimmer			Vcontrol from 0.25 to 4.50 volts	+/- 3.0 +/- 3.0			PPM	With Vcontrol = 2.25V center
Frequency stability								
vs. temperature			From -40C to 65C with REF. to Freq. at 25C +/- 3C	-0.300		+0.300	PPM	With Vcontrol = 2.25 volts
First year Aging			As calculated by curve fit based	-0.300		+0.300	PPM	
Five Year Aging			On 30 days of continuous power	-0.500		+0.500	PPM	
				Low	Typical	Best		
SSB Phase noise **At 25.6 MHz sine wave into 50 ohm phase noise system**			100 Hz	-120	-125	-130	dBc/Hz	
			1000Hz	-135	-140	-145		
			10000Hz	-145	-148	-151		

Environmental		
Parameter	Reference Std.	Test Condition
Storage temperature		-55℃ to +85 ℃