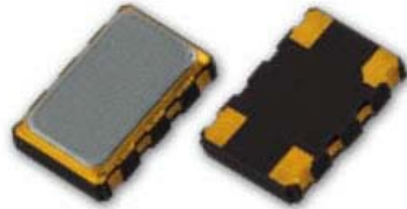


Features

Frequency 10.245 MHz
 5mm x 3.2mm x 1.15mm ceramic SMD
 Compact and lightweight
 Low power consumption
 Low cost | excellent stability

Picture of Part



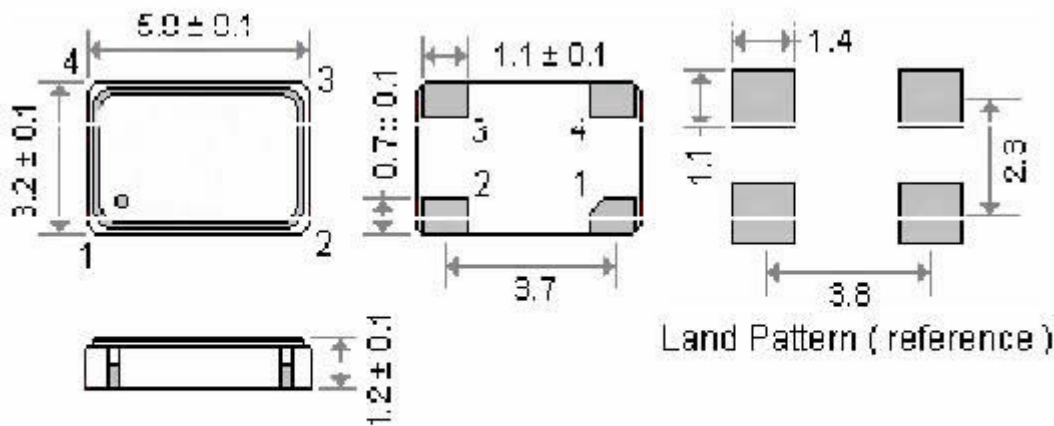
Topical Applications

WLAN | WiMAX Automatic Meter Reading

Description

The TCXO3306 family offers low noise compensation techniques combined with high volume manufacturing processes resulting in low cost, tightly distributed performance parameters, and very good overall long term frequency stability and reliability.

Physical Dimensions & Pin Connections



Pad Connections :

Pad 1 : Voltage control for VCTCXO ; Ground for TCXO .

Pad 2 : Ground ; Pad 3 : Output , Pad 4 : Supply Voltage

Pin	Function
1	VCON : VCTCXO GND : TCXO
2	GND
3	OUTPUT
4	VDD

TCXO3306-10.245MHz
Miniature High Stability TCXO

Specification

TCXO Specification		Sym.	Condition	Value			Unit	Note
				Min.	Typ.	Max.		
Operational Frequency Range		f_0			10.245000		MHz	
	Load						pF	
	H - level voltage	V_H		$0.9 \cdot V_{CC}$			V	
	L - level voltage	V_L				$0.1 \cdot V_{CC}$	V	
	Rise & Fall time						ns	
	Duty cycle						%	
Clipped Sine-wave ONLY	Level	L		0.8			pk-pk	
	Load Resistance	R_L			10		Kohm	
	Load Capacitance	C_L			10		pF	
Pin 1 Options for VCTCXO only	Control Voltage	Standard: $+1.5 \text{ V} \pm 1.0 \text{ V}$ for all input voltages						
	Frequency Deviation Range	$\pm 6.0 \text{ ppm (min.)}$, $V_{\text{control}} = +1.5 \text{ V} \pm 1.0 \text{ V}$						
	Slope Polarity (Transfer Function)	Positive slope. Positive voltage for positive frequency shift.						
	Input Impedance	$1.0 \text{ M}\Omega \text{ min.}$						
	Modulation Bandwidth	3 KHz min. Measured at -3 dB, $V_{\text{control}} = +1.5 \text{ V}_{DC}$						
	Linearity	10% max.						
Power supply								
Voltage		V_{CC}		2.850	3.000	3.150	V	
Current consumption		I_{CC}				1.5	mA	
Frequency stability								
vs. temperature			-40°C to $+85^\circ\text{C}$, ref 25°C	-2.0		+2.0	ppm	
vs. 5% change in supply voltage			ref V_{CC} typ.	-0.300		+0.300	ppm	
Tolerance at 25C				-2.0		+2.0	ppm	Frequency 1 hr after reflow
SSB Phase noise @ 13MHz clipped sine wave			10 Hz				dBc/Hz	
			100 Hz		-115			
			1 kHz		-135			
			10 kHz		-148			
			100 kHz					
Aging	Per Year		Projected yearly aging after 30 days operation	-1.0		+1.0	ppm	
Environmental, mechanical conditions.								
Operating temperature range		-40°C to $+85^\circ\text{C}$ maximum range available that is standard						
Storage temperature range								
Mechanical shock								
Vibration								
Soldering								

Ordering information

TCXO3306-10.245000MHz