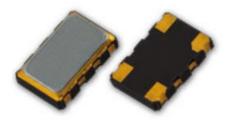
Features

Frequency Range 10 to 40 MHz 5mm x 3.2mm x 1.15mm ceramic SMD Compact and lightweight Low power consumption Low cost / excellent stability

Typical Applications

WLAN / WiMAX Automatic Meter Reading

Picture of Part



Description

The TCXO3437 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

[SIDE VIEW] [BOTTOM VIEW] 0.10 1.10 2.40 WE State of the state of

Pin Connections

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

TCXO3437

Miniature High Stability TCXO

Specification

Specification		Sym.	Condition	Value			Unit	Note		
				Min.	Typ.	Max.				
		f_0			16.8		MHz			
	T	1			1			1		
	Load						pF			
	H - level voltage	V _H					V			
	L - level voltage	V_{L}					V			
	Rise & Fall time						ns			
	Duty cycle						%			
Clipped Sine-wave ONLY	Level	L		0.8			pk-pk			
	Load Resistance	RL			10		Kohm			
	Load Capacitance	CL			10		pF			
Power supp	ly									
Voltage		Vcc		2.85	3.0	3.15	V			
Current consumption Ico		Icc				2.5	mA			
Frequency	control*			_		1				
Control voltage range Vo		Vc		0.5	1.5	2.5	V	Positive tuning slope		
Tuning range				+/- 5			ppm			
Vc Input Impedance				1			Mohm			
Frequency s	stability					L				
vs. temperature			-40°C to +85°C, ref 25°C	-1.6		+1.6	ppm	0.5 ppm available case by case		
vs. 5% change in supply voltage		ref Vcc typ.	-0.200		+0.200	ppm				
Tolerance a	t 25C			-0.5		+0.5	ppm	Frequency 1 hr after reflow		
			10 Hz		-85					
SSB Phase noise			100 Hz		-110		dBc/Hz			
			1 kHz		-130					
			10 kHz		-140					
			100 kHz		-145					
Aging	Per Year		Projected yearly aging after	-1.0		+1.0	ppm			
1151115	1 Ci 1 Cai		30 days operation	-1.0		+1.0	րիրու	1		
	ntal, mechanical cond	litions.								
Operating temperature range			-40°C to +85°C maxi mum ran ge available that i s standard							
Storage temperature range		-55°C to +85°C								
Thermal shock			-55°C to +125°C, each temperature 10 mins, 200 cycles. MIL-STD-883D 1011.9, condition B							
Mechanical shock			1500g, half-sine, 0.5 ms, 3 directions 3 times. MIL-STD-883D 2002.3, condition B							
Vibration			20~2000 Hz, 1.5 mm, 20 g X, Y, Z each direction 4 hrs, sinuate, MIL-STD-883D 2005.2, condition B							
Soldering						·		·		