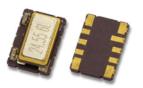
Features

Frequency 12.8 MHz 7mm x 5mm x 2.00 mm ceramic SMD CMOS output +/- 0.50 ppm from -40°C to 85°C

Typical Applications

Base stations 10 G-bit ethernet SONET GSM,CDMA, 3G, and 4G cellular

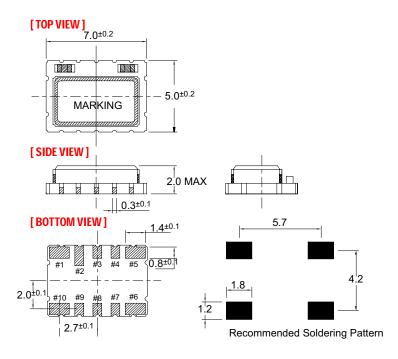
Picture of Part



Description

The TCXO3425 family offers low noise compensation techniques combined with aggressive conditioning processes resulting in outstanding long term stability, tightly distributed performance parameters, and superior long term reliability

Physical Dimensions



Pin Connections

Function				
VCON: VCTCXO GND: TCXO				
NC				
NC				
NC				
GND				
Output				
NC				
NC				
NC				
VDD				

Specification

TCXO Specification Operational Frequency Range		Sym. Condition	Condition	Value			Unit	Note
				Min.	Typ.	Max.		
					12.8		MHz	
HCMOS	Load					15	pF	
	H - level voltage	V_{H}		0.9Vcc			V	
	L - level voltage	$V_{\rm L}$				0.1Vcc	V	
	Rise & Fall time					10	ns	
	Duty cycle			45		55	%	
Power supp	ply					_		
Voltage		Vcc		2.800		3.465	V	
Current consumption		Icc				6.0	mA	square wave
Frequency	control*		**This is a clock TCXO			1		1
N/A			Requirement					
Frequency	stahility							
vs. temperature			-40°C to +85°C, ref 25°C	-0.500		+0.500	ppm	
vs. 5% change in supply voltage			ref Vcc typ.	-0.300		+0.300	ppm	
Tolerance at 25C				-2.000		+2.000	ppm	Frequency 1 hr after reflow
SSB Phase	noise		100 Hz		-120			
@12.8 MHz CMOS typical			1000 Hz		-140			
			10 kHz		-148		dBc/Hz	
								_
Total Tolerance	After 1 year		Projected after 30 days operation	-1.000		+1.000	ppm	
Environme	ental, mechanical cond	litions.				1		
Operating temperature range			-40°C to +85°C maximum ra	nge available t	hat is stan	dard		
Storage tem	perature range		-55°C to +125°C	-				
Mechanical	shock							
Vibration								
Soldering								

TCX03425

High Volume High Performance TCXO

Ordering Information

TCXO3425

NOTE 1: Total Frequency Tolerance is inclusive of calibration at 25°C, change over temperature, change with 5% supply variation, change with 5% load change, change with reflow soldering, and 20 year aging.