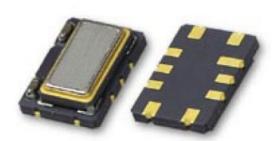
Features

Frequency 12.8 MHz
7mm x 5mm x 1.85mm ceramic SMD
+/-- 4.6 ppm total stability over 20 years
CMOS output
Tri-state Enable / Disable Function
+/-- 0.50 ppm from -40 to +85 centigrade degree

Picture of Part



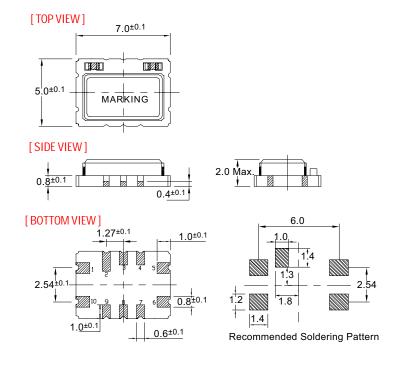
Typical Applications

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

Description

The TCXO3404 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

Pad	Function					
1	VCON: VC-TCXO					
	NC: TCXO					
2	NC					
3	NC					
4	NC					
5	GND					
	CMOS/ Clipped					
6	Sinewave Output					
7	NC					
8	NC					
9	Tri-State Control*					
10	VDD					

Specification

TCXO Specification		Sym. Condition	Condition	Value			Unit	Note	
				Min.	Tvp.	Max.			
Operational Frequency Range		f_0			12.800		MHz		
	Load					15	pF		
	H - level voltage	V_{H}		0.9Vcc			V		
	L - level voltage	V_L				0.1Vcc	V		
	Rise & Fall time						ns		
	Duty cycle			45		55	%		
Power suppl	ly	17	1	2.125	2 200	2.465	3.7	50 Wanting or '111	
Voltage		Vcc		3.135	3.300	3.465	V	5.0 V option available	
Current cons	sumption	Icc				6.0	mA	square wave	
Frequency s		1	-40 °C to +85 °C, ref 25 °C	-0.500		+0.500	nnm		
	ge in supply voltage		ref Vcc typ.	-0.300		+0.300	ppm ppm		
Tolerance at	25C		rei vee typ.	-2,000		+2.000	ppm	Frequency 1 hr after reflow	
			10 Hz		-90				
SSB Phase noise @12.8 MHz CMOS typical			100 Hz		-120		dBc/Hz		
			1 KHz 10 KHz		-140 -148				
		10 ΚΠΖ		140			-		
Total	Over 20 years		Projected after	-4,600		+4.600	ppm		
Tolerance			30 days operation	7.000		1.000	**		
Environmen	ital, mechanical cond	litions.	1	·	•			•	
Operating temperature range			-40 °C to +85 °C maximum range available that is standard						
Storage temp	erature range		-55 °C to +125 °C						

Tri etete			Output OFF: Less than 30% of Vcc Output ON: Greater than 70% of Vcc; or do NOT connect						
Tri-state Enable / Disa	able		Output OFF: Less than 30% of Output ON: Greater than 70%	of Vec: or do N	VOT conne	nt			