TI Type Voltage Controlled Temperature Compensated Crystal Oscillator

RoHS Compliant Optional

FEATURE

1.Frequency vs Temperature:±1.0ppm @-40°C~ +85°C.
2.Pulling: ±30ppm max.(Optional)
3.Aging: ±1ppm/year.
4.Mini Size.
5.Packing: Tape & Reel, 1000pcs per Reel, 1~99 pcs per Bulk/Tape.

ORDERING INFORMATION

T	I	G	A	D	E	S	—	N	L	—	?
TCXO	Package (mm)	Supply Voltage(V) & Pin Form	Pulling Range (ppm)	Freq. Stability (ppm)	Temp. Range (°C)	Output Logic and Symmetry	Dash	Appearance	Lead Free	Dash	Freq.(MHz)
	11.5x9.6	G: 5.0 F: 2.8~3.3	A:± 5 B:± 8 C:±10 D:±12 E:±15 F:±20 G:±25 T:TCXO	A: ±0.5 B: ±1.0 P: ±1.5 C: ±2.0 D: ±2.5 E: ±3.0 F: ±4.0 G: ±5.0	W: 0～+55 C:-10～+60 E:-20～+70 H:-30～+75 U:-40～+85	S:Clipped Sine Wave @10KK/10pF		N:Normal	F:RoHS Compliant L:Not RoHS Compliant		xx.xxxxxx

Ordering Example: TIGADES-NL-10.000000 MHz

VCTCXO I-TYPE; V_{DD}: 5V; Pulling Range: ±5ppm; Freq. Stability: ±2.5ppm; Temp. Range: -20°C to +70°C; Clipped Sine Wave; Normal Appearance; Not RoHS Compliant; Freq. 10.000000MHz.

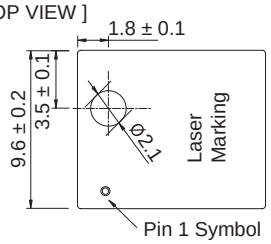
FREQ. STABILITY vs. TEMP. RANGE

Temp.(°C) \ ppm		A: ±0.5	B: ±1.0	P: ±1.5	C: ±2.0	D: ±2.5
W	0～ +55	○	○	○	○	○
C	-10～ +60	△	○	○	○	○
E	-20～ +70	X	○	○	○	○
U	-40～ +85	X	○	○	○	○

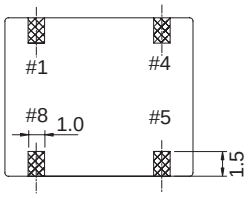
○:Standard △:Available (case by case) ×:Not available

OUTLINE DRAWING

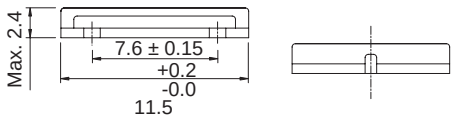
[TOP VIEW]



[BOTTOM VIEW]



[SIDE VIEW]



Pin	Function
#1	VC/NC
#4	GND
#5	OUTPUT
#8	V_{DD}

UNIT:mm

*Contact Sales@taitien.com.tw for special request.

ELECTRICAL SPECIFICATION

Parameter	Min.		Max.		Unit
	5.0	2.8	5.0	2.8	V
Supply Voltage Variation(V_{DD}) 5%	4.75	2.66	5.25	2.94	V
Frequency Range	10.000		36.000		MHz
Operating Temp. Range	Refer to Ordering Information				℃
Frequency Stability	Refer to Ordering Information				ppm
Frequency Stability					
Vs Supply Voltage(±5%) change	—		±0.2		ppm
Vs Load(±10%) change	—		±0.2		
Vs Aging	—		±1.0		ppm/year
Supply Current					
10.000MHz≦Fo＜15.000MHz	—		1.5		mA
15.000MHz≦Fo＜26.000MHz	—		2.0		
26.000MHz≦Fo≦36.000MHz	—		2.5		
Output Level (Clipped Sine)	0.8		—		Vp-p
Load	10KΩ//10pF				
Vc Input Impedance	100		—		KΩ
Phase Noise @13.0MHz					
100Hz	-115				dbc/Hz
1KHz	-135				
10KHz	-148				
Start Time	—		2		mSec
Storage Temp. Range	-55		125		℃