

ECS-TXO-3225 (3.3V) HCMOS SMD TCXO and ECS-VTXO-3225 (3.3V) HCMOS SMD VC-TCXO are ideal for portable, wireless applications where stability is critical.

### ECS-TXO-3225 HCMOS TCXO

Request a Sample



#### **OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS**



- HCMOS TCXO/VC-TCXO
- 3.2 x 2.5 mm Footprint
- PbFree/RoHS Compliant
- Peak solder temp +260°C (10 sec)
- MSL 1
- Lead Finish Au

	Conditions	ECS-TXO-3225			
Parameters		MIN	TYP	MAX	Units
Frequency Range		8.192		40.000	MHz
Operating Temperature	* Standard	-30		+85	°C
Storage Temperature		-40		+90	°C
Input Voltage	VDD	+3.135	+3.3	+3.465	VDC
	Vs. Temp (-30 ~ +85°C)			±2.5	PPM
Frequency Stability	Vs. Supply Change (±5%)			±0.3	PPM
	Vs. Load Change (±5%)			±0.3	PPM
	Vs. Aging/Year			±1.0	PPM
Frequency Tolerance	@ +25°C ±2°C			±1.5	PPM
Current Consumption				6.0	mA
"0" Level	VOL			0.5	VDC
"1" Level	VOH	80% VDD			VDC
Output Symmetry	@50% VDD Level 40/60		%		
Rise and Fall Times	10% VDD to 90% Level 10		10	ns	
Output Load	CMOS		15	pF	
Start-up Time				2.0	mS
Phase Noise	@ 1 KHz Offset			-135	DBc/Hz
ECS-VTXO-3225 Option					
Control Voltage	Pin 1	+0.15	+1.65	+3.15	VDC
Pullability		±5			PPM

### Part Numbering Guide: Example ECS-TXO-3225-250-TR

Frequency Abbreviations - Stability Tolerance -**ECS Series Temperature Packaging** ECS TXO-3225 = TCXO 250 = 25.000 MHz TR = Tape & Reel <u>Standard</u> <u>Standard</u> VTXO-3225 = VC-TCXO Blank =  $\pm 2.5$  ppm Blank = -30 ~ +85°C Custom Options **Custom Options**  $B = \pm 1.5 ppm$ \* N = -40  $\sim$  +85 $^{\circ}$ C  $C = \pm 1.0 \text{ ppm}$ 

\* Consult Factory for availability of ±1 ppm -40 ~ 85°C



# ECS-TXO-3225 HCMOS TCXO



# **Package Dimensions (mm)**

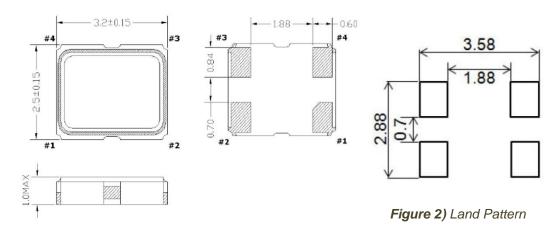


Figure 1) Top, Side, and Bottom views

Pin Connections		
#1	N/C or V <sub>CONT</sub>	
#2	Ground	
#3	Output	
#4	VDD	

Developed Frequencies			
* Abbreviation	Frequency (MHz)		
100	10.000		
120	12.000		
122.8	12.288		
147.4	14.7456		
160	16.000		
200	20.000		
250	25.000		
270	27.000		