



- **HCMOS TCXO/VC-TCXO**
- 3.2 x 2.5 mm Footprint
- Pb Free/RoHS
- Peak solder temp +260°C (10 sec)
- Lead Finish Au

CS-TXO-3225

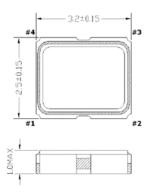
HCMOS TCXO

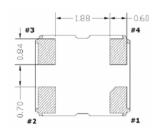
ECS-TXO-3225 (3.3V) HCMOS SMD TCXO and ECS-VTXO-3225 (3.3V) HCMOS SMD VC-TCXO are ideal for portable, wireless applications where stability is critical.

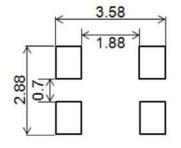
OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

DADAMETERS	CONDITIONS				LINITO
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	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

DIMENSIONS (mm)







N/C or VCONT Pin #1 Pin #2 Ground Pin #3 Output VDD Pin #4

Pin Connections

Figure 1) Top, Side and Bottom views

Figure 2) Suggested Land Pattern

PART NUMBERING GUIDE: Example ECS-TXO-3225-250-TR

ECS -Frequency Abbreviation - Stability -TR **Series Temp** TXO-3225= TCXO 250 = 25.000 MHz <u>Standard</u> TR= **Standard** Blank = ± 2.5 ppm Blank = -30 ~ +85°C Tape & Reel VTXO-3225=VC-TCXO See Developed Frequencies **Custom Options Custom Options** B= ±1.5 ppm N= -40 ~ +85°C

C= ±1.0 ppm

*			
"Concult Eacto	ry for availability	of +1 nnm 40	105°€

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				
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