

3.2x2.5mm C-Sine TCXO/VCTCXO

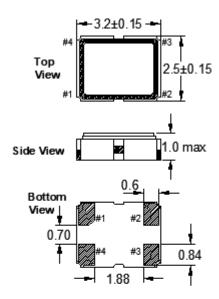
T3CN/T3CV

(former FOX923 Series)

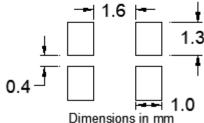
DATASHEET

Digital Temperature Compensation

PARAMETERS	MAX (unless otherwise noted)			
Frequency Range (MHz)	8.0 ~ 40.000			
Temperature Range Operating (T_{OPR}) Storage (T_{STG})	See table below -40°C ~ +85°C			
Supply Voltage (V _{DD}) (±5%)	2.5V; 2.7V; 2.8V; 3.0V; 3.3V			
Input Current (I _{DD})	2.0mA			
Initial Frequency Tolerance @ 25°C (after reflow) (T3CV: Vc = 0.5V _{DD}) ¹	±2.0 PPM			
Frequency Stability Over Temperature Range Over Supply Voltage Change (VDD±5%) Over Load Change [10kΩ//10pF]+-10%	See table below ±0.3 PPM ±0.3 PPM			
Output Voltage Level	0.8Vp-p min			
Output Load	[10kΩ//10pF]+-10%			
Pullability (T3CV: Vc = 0.5V _{DD} ±1.0V) ¹	±3 ~ ±15 PPM			
Aging per year	±1.0 PPM			
Startup Time (T _S)	3.0mS			
Phase Noise @ 1kHz offset	-130 dBc/Hz Typical			
Reflow Soldering Temp	260°C / 10 Seconds x 2			
Moisture Sensitivity Level (MSL)	1			
Termination Finish	Au over Ni			
Lead-Free	Yes			
RoHS/REACH Compliant	Yes			



Recommended Solder Pad Layout



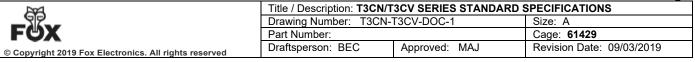
Pin Connections

TCXO	VCTCXO				
#1 GND #3 Out	#1 Vc #3 Out				
#2 GND #4 V _{DD}	#2 GND #4 V _{DD}				

Operating Temperature	±1 PPM	±1.5 PPM	±2 PPM	±2.5 PPM	±15 PPM
-30 ~+85°C	0	0	0	0	NA
-40 ~+85°C	Δ	0	0	0	NA
-40 ~+105°C	Х	Х	Х	Х	0

Key: O=Available, X=Not Available, NA=Not Applicable, Δ = Consult Fox Engineering

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¹For proper operation, a control voltage (Vc) must be applied to pin 1 of VCTCXO's.

^{*}Dimensional drawing is for reference to critical specifications defined by size measurements.

Certain non-critical visual attributes, such as side castellations, reference pin shape, etc. may vary All specifications subject to change without notice.



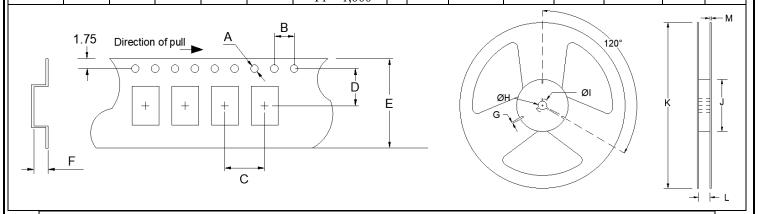
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]	Гаре Spe	ecificatio	ons (mill	imeters)			Re	el Specifi	cations (1	nillimeters	s)	
A	В	C	D	E	F	Reel Qty	G	Н	I	J	K	L	M
Ø1.5	4.0	4.0	3.5	8.0	1.4	-T3 = 3,000	2.0	Ø13	Ø21	Ø60	Ø180	9.0	1.5
						-T2 = 2,000							
						T1 - 1.000							



Available Options & Part Identification for TCXO Model T3CN/T3CV¹ F T3CN B P K 25.0

F	T3CN	В	Р	K	25.0
<u>FOX</u>	Model Number T3CN = TCXO T3CV = VCTCXO	Voltage B = +3.3V±5% D = +3.0V±5% Q = +2.8V±5% S = +2.7V±5% H = +2.5V±5%	Stability T = ±1.0 PPM S = ±1.5 PPM R = ±2.0 PPM P = ±2.5 PPM F = ±15 PPM	Operating <u>Temperature</u> K = -30 to +85°C M = -40 to +85°C P = -40 to +105°C	Frequency <u>(MHz)</u>

¹ Not all frequencies in the frequency range, or every combination of stability, temp range, and voltage available. See stabilities/operating temp table.



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