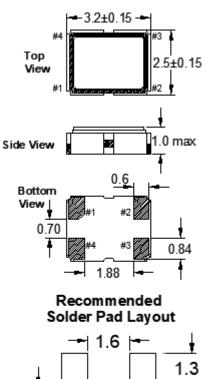
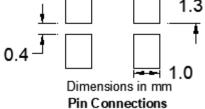


Digital Temperature Compensation

ELECTRICAL CHARACTERISTICS	
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 = 0.5VDD) 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 $(T3CV: Vc = 0.5V_{DD} \pm 1.0V)^{1}$	±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





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

Page 1 of 2

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	X	0

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

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.

X	Title / Description: T3CN/T3CV SERIES STANDARD SPECIFICATIONS					
	Drawing Number: T3CN-	Size: A				
FOX	Part Number:	Cage: 61429				
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3.2x2.5mm C-Sine TCXO/VCTCXO

T3CN/T3CV (former FOX923 Series) DATASHEET

	Tape Specifications (millimeters)							Reel Specifications (millim			ons (millimeters)				
Α	B	С	D	Е	F	Reel Qty		G	Н	Ι	J	K	L	Ι	
Ø1.5	4.0	4.0	3.5	8.0	1.4	-T3 = 3,000		2.0	Ø13	Ø21	Ø60	Ø180	9.0	1	
						-T2 = 2,000									
						-T1 = 1,000									
	1.75 D			A 0 0 + +			Ē		G		Ø	120°	K E		
\overrightarrow{F} Available Options & Part Identification for TCXO Model T3CN/T3CV ¹ \overrightarrow{F} $\overrightarrow{T3CN}$ \overrightarrow{B} \overrightarrow{P} \overrightarrow{K} $\overrightarrow{25.0}$															
	F		T3C	N	E	3	Ρ			K		25.	D		
	<u>FOX</u>		Mode <u>Numbe</u> I <mark>3CN = T</mark> SCV = VC	<u>er</u> CXO	<u>Volt</u> B = +3.3 D = +3.0 Q = +2.8 S = +2.7	3V±5% T =)V±5% S = 3V±5% R =	= ±1.5 = ±2.0	lity PPM PPM PPM PPM	<u>Ten</u> K = -: M = -:	perating nperature 30 to +85° 40 to +85° 40 to +105	2° 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.

 $F = \pm 15 PPM$



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 $H = +2.5V \pm 5\%$

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FÖX	Drawing Number: T3CN-	T3CV-DOC-1	Size: A		
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