

(Former FOX923)

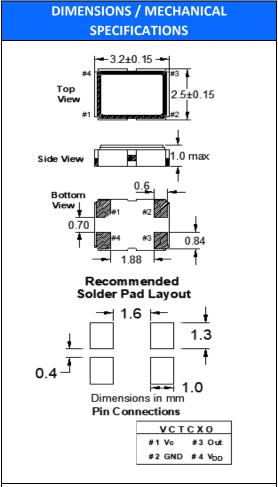
## 3.2mm x 2.5mm CSW VCTCXO



## **Features**

• Digital Temperature Compensation

STANDARD SPECIFICATIONS						
PARAMETERS	MAX					
	(Unless otherwise noted)					
Frequency Range (MHz)	8.0 ~ 40.000					
Temperature Range						
Operating (T <sub>OPR</sub> )	(See table below)					
Storage (T <sub>STG</sub> )	-40°C ~ +85°C					
Supply Voltage (V <sub>DD</sub> ) (±5%)	2.5V; 2.7V; 2.8V; 3.0V; 3.3V					
Input Current (I <sub>DD</sub> )	2.0 mA					
Initial Frequency Tolerance @ 25°C						
(after reflow) (T3CV: $V_c = 0.5V_{DD}$ ) <sup>1</sup>	±2.0 PPM					
Frequency Stability						
Over Temperature Range	(See table below)					
Over Supply Voltage Change (VDD±5%)	±0.3 PPM					
Over Load Change [10kΩ//10pF]+-10%	±0.3 PPM					
Output Voltage Level	0.8V <sub>p-p</sub> min					
Output Load	[10kΩ//10pF]+-10%					
Pullability						
$(Vc = 0.5VDD \pm 1.0V)^{1}$	±3 ~ ±15 PPM					
Aging per year	±1.0 PPM					
Startup Time (T <sub>s</sub> )	3.0 mS					
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					



\*Dimensional drawing is for reference to critical specifications defined by size measurements.
Certain non-critical visual attributes, such as side castellation's, reference pin shape, etc. may vary All specifications subject to change without notice.

Available Options by Stability & Operating Temp							
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	X	Х	Х	0		
Key: O=Available, X=Not Available, NA=Not Applicable, $\Delta$ = Consult Fox Engineering							

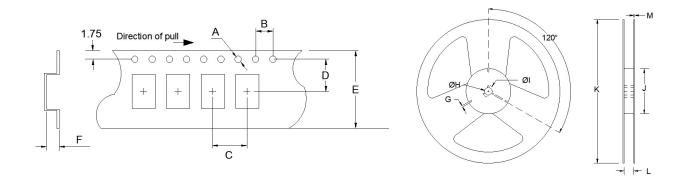
<sup>&</sup>lt;sup>1</sup>For proper operation, a control voltage (Vc) must be applied to pin 1 of VCTCXO's.



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TAPE SPECIFICATIONS (mm)				RE	EL SPE	CIFICAT	IONS (m	m)					
Α	В	С	D	E	F	REEL QTY	G	Н	1	J	К	L	М
ø1.5	4.0	4.0	3.5	8.0	1.4	-T3 = 3,000 -T2 = 2,000 -T1 = 1.000	2.0	Ø13	Ø21	Ø60	Ø180	9.0	1.5



Available Options & Part Identification for VCTCXO Model T3CV <sup>1</sup> Sample PN: <u>FT3CVBPK25.0-T3</u>										
F	T3CV B P K 25.0 -T3									
<u>Fox</u>	<u>Model</u>	<u>Voltage</u>	<u>Stability</u>	<b>Operating</b>	Frequency	Values Added				
	<u>Number</u>	B = +3.3V±5%	T = ±1.0 PPM	<u>Temperature</u>	<u>(MHz)</u>	<b>Options</b>				
	T3CV = VCTCXO	$D = +3.0V \pm 5\%$	S = ±1.5 PPM	K = -30 to +85°C		Blank = Bulk				
		$Q = +2.8V \pm 5\%$	$R = \pm 2.0 PPM$	M = -40 to +85°C		T1 = 1,000 pcs				
		S = +2.7V±5%	P = ±2.5 PPM	P = -40 to +105°C		T2 = 2,000 pcs				
		H = +2.5V±5%	F = ±15 PPM			T3 = 3,000 pcs				

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

**Reliability Test Conditions** 

Please contact Abracon Quality Assurance department