FT3CV

(Former FOX923)

3.2mm x 2.5mm

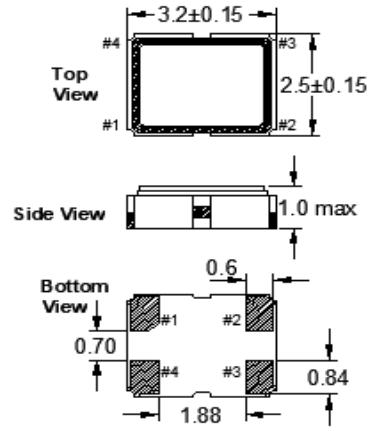
CSW VCTCXO

Features

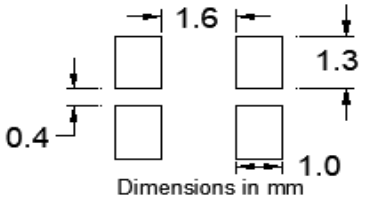
- Digital Temperature Compensation

STANDARD SPECIFICATIONS	
PARAMETERS	**MAX (Unless otherwise noted)**
Frequency Range (MHz)	8.0 ~ 40.000
Temperature Range Operating (T_{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})	2.0 mA
Initial Frequency Tolerance @ 25°C (after reflow) (T3CV: $V_c = 0.5V_{DD}$)[1]	 ±2.0 PPM
Frequency Stability Over Temperature Range Over Supply Voltage Change (V_{DD}±5%) Over Load Change [10kΩ//10pF]+-10%	 (See table below) ±0.3 PPM ±0.3 PPM
Output Voltage Level	0.8V_{p-p} min
Output Load	[10kΩ//10pF]+-10%
Pullability (Vc = 0.5VDD ±1.0V)[1]	 ±3 ~ ±15 PPM
Aging per year	±1.0 PPM
Startup Time (T_S)	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

DIMENSIONS / MECHANICAL SPECIFICATIONS



Recommended Solder Pad Layout



Dimensions in mm

Pin Connections

VCTCXO	
#1 Vc	#3 Out
#2 GND	#4 V_{DD}

*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	O	O	O	O	NA
-40 ~+85˚C	Δ	O	O	O	NA
-40 ~+105˚C	X	X	X	X	O
Key: O=Available, X=Not Available, NA=Not Applicable, Δ = Consult Fox Engineering					

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

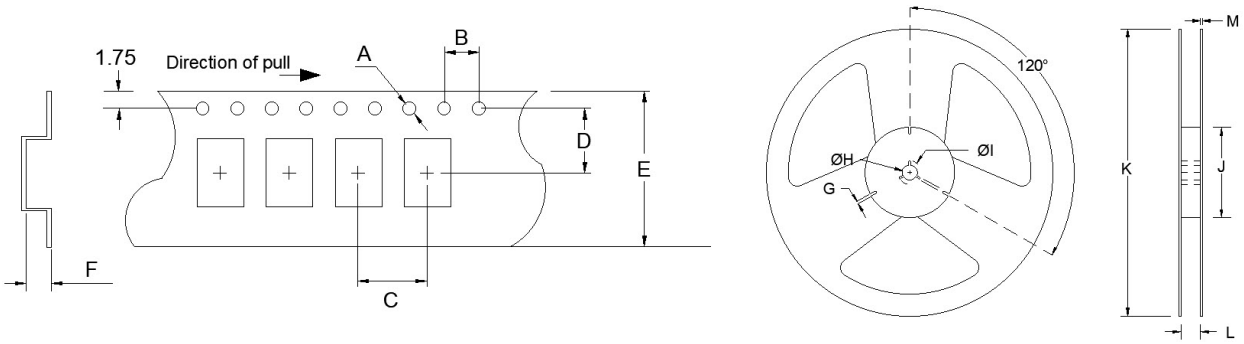
FT3CV

(Former FOX923)

3.2mm x 2.5mm

CSW VCTCXO

TAPE SPECIFICATIONS (mm)							REEL SPECIFICATIONS (mm)						
A	B	C	D	E	F	REEL QTY	G	H	I	J	K	L	M
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 [1] Sample PN: **FT3CVBPK25.0-T3**						
F	**T3CV**	**B**	**P**	**K**	**25.0**	**-T3**
Fox	**Model Number** **T3CV = VCTCXO**	**Tolerance** **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 Temperature** **K = -30 to +85°C** M = -40 to +85°C P = -40 to +105°C	**Frequency (MHz)**	**Values Added Options** Blank = Bulk T1 = 1,000 pcs T2 = 2,000 pcs **T3 = 3,000 pcs**

[1] 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