

Features

- Digital Temperature Compensation

STANDARD SPECIFICATIONS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range (MHz)	8.0 ~ 40.000
Temperature Range	
Operating (T_{OPR})	(See table below)
Storage (T_{STG})	-40°C ~ +85°C
Supply Voltage (V_{DD}) ($\pm 5\%$)	2.5V; 2.7V; 2.8V; 3.0V; 3.3V
Input Current (I_{DD})	2.0 mA
Initial Frequency Tolerance @ 25°C (after reflow)	± 2.0 PPM
Frequency Stability	
Over Temperature Range	(See table below)
Over Supply Voltage Change ($V_{DD} \pm 5\%$)	± 0.3 PPM
Over Load Change [10k Ω //10pF]+10%	± 0.3 PPM
Output Voltage Level	0.8V _{p-p} min
Output Load	[10k Ω //10pF]+10%
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						
<p>Top View: 3.2±0.15 mm width, 2.5±0.15 mm height. Pins #1, #2, #3, #4.</p> <p>Side View: 1.0 mm max height.</p> <p>Bottom View: 0.6 mm pin width, 0.70 mm pin height, 1.88 mm pin pitch, 0.84 mm distance between pins.</p>						
<p>Recommended Solder Pad Layout</p> <p>Dimensions in mm: Pad width 1.6 mm, pad height 1.3 mm, pad spacing 1.0 mm, pad offset 0.4 mm.</p>						
<p>Pin Connections</p> <table border="1"> <thead> <tr> <th colspan="2">T C X O</th> </tr> </thead> <tbody> <tr> <td># 1 GND</td> <td># 3 Out</td> </tr> <tr> <td># 2 GND</td> <td># 4 V_{DD}</td> </tr> </tbody> </table>	T C X O		# 1 GND	# 3 Out	# 2 GND	# 4 V _{DD}
T C X O						
# 1 GND	# 3 Out					
# 2 GND	# 4 V _{DD}					
<p>*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.</p>						

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

FT3CN

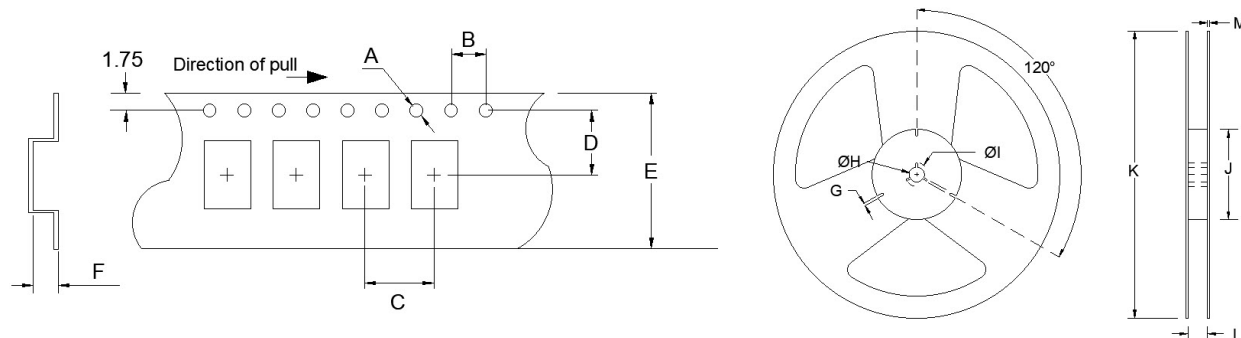
(Former FOX923)

3.2mm x 2.5mm

CSW TCXO



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 TCXO Model FT3CN¹

Sample PN: **FT3CNBPK25.0-T3**

F	T3CN	B	P	K	25.0	-T3
Fox	Model Number T3CN = TCXO	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 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