

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) (T3CV: $V_c = 0.5V_{DD}$) ¹	± 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%
Pullability ($V_c = 0.5V_{DD} \pm 1.0V$) ¹	$\pm 3 \sim \pm 15$ 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

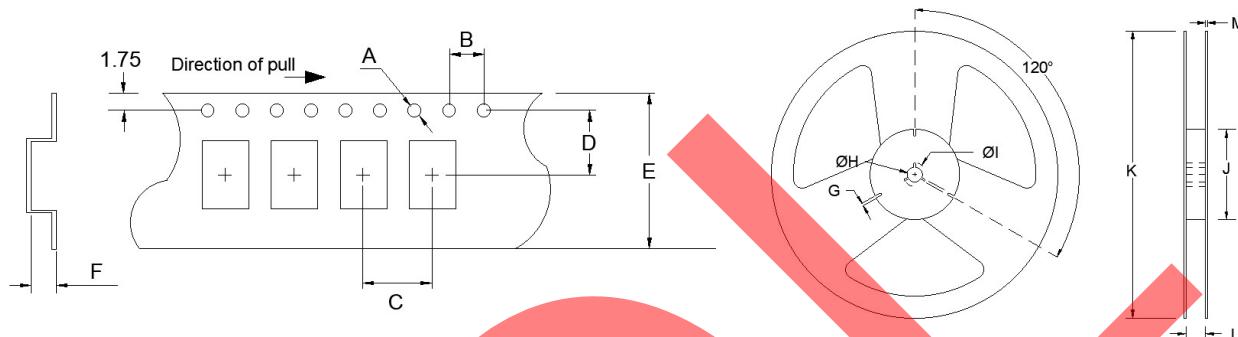
DIMENSIONS / MECHANICAL SPECIFICATIONS						
	Top View					
	Side View					
	Bottom View					
Recommended Solder Pad Layout 						
Dimensions in mm Pin Connections <table border="1"> <tr> <td>V C T C X O</td> </tr> <tr> <td># 1 V_c</td> <td># 3 Out</td> </tr> <tr> <td># 2 GND</td> <td># 4 V_{DD}</td> </tr> </table>		V C T C X O	# 1 V_c	# 3 Out	# 2 GND	# 4 V_{DD}
V C T C X O						
# 1 V_c	# 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

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

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 T3CV¹

Sample PN: FT3CVBPK25.0-T3

F	T3CV	B	P	K	25.0	-T3
Fox	<u>Model Number</u> T3CV = VCTCXO	<u>Voltage</u> B = +3.3V±5% D = +3.0V±5% Q = +2.8V±5% S = +2.7V±5% H = +2.5V±5%	<u>Stability</u> T = ±1.0 PPM S = ±1.5 PPM R = ±2.0 PPM P = ±2.5 PPM F = ±15 PPM	<u>Operating Temperature</u> K = -30 to +85°C M = -40 to +85°C P = -40 to +105°C	<u>Frequency (MHz)</u>	<u>Values Added Options</u> 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 Abracan Quality Assurance department