

# FT5HV

(Former FOX924E)

5.0mm x 3.2mm

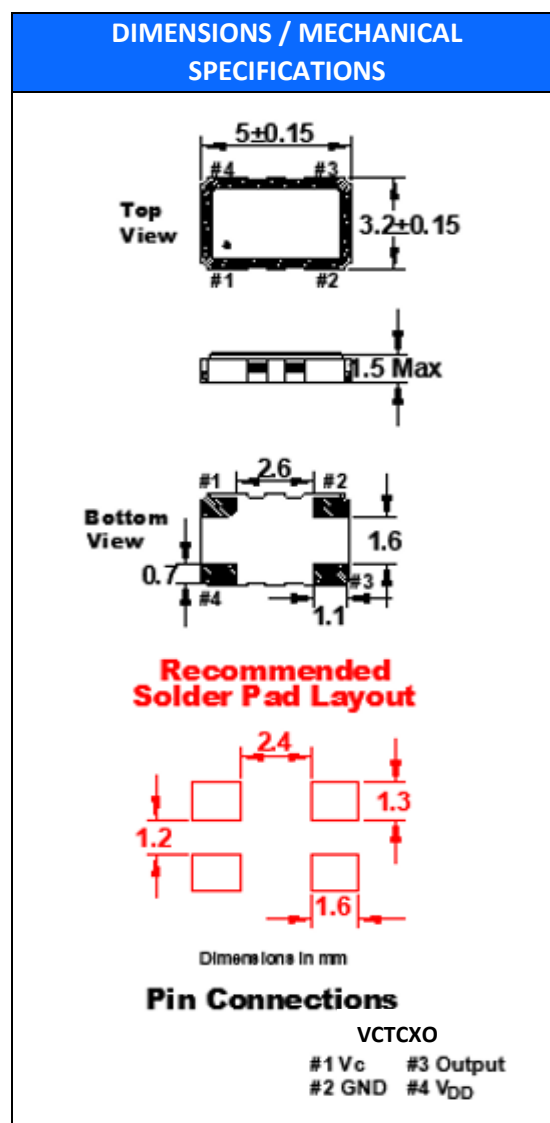
HCMOS VCTCXO



## Features

- Digital Temperature Compensation

STANDARD SPECIFICATIONS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range (MHz)	8.000 ~ 40.000
Temperature Range	
Operating ( $T_{OPR}$ )	See table below
Storage ( $T_{STG}$ )	-40°C ~ +85°C
Supply Voltage ( $V_{DD}$ )	3.3 VDC±5%
Input Current ( $I_{DD}$ )	6.0 mA
Initial Frequency Tolerance @ 25°C (after reflow) ( $T5CV: V_c = 1.65V$ ) <sup>1</sup>	±2.0 PPM
Frequency Stability	
Over Temperature Range	See table below
Over Supply Voltage Change (3.3V±5%)	±0.3 PPM
Over Load Change (15pF ±5%)	±0.3 PPM
Rise Time (0.5V ~ 80% $V_{DD}$ )	10 nS
Fall Time (80% $V_{DD}$ ~ 0.5V)	10 nS
Symmetry (50% $V_{DD}$ )	40% ~ 60%
Output Voltage ( $V_{OL}$ )	0.5V
( $V_{OH}$ )	80% $V_{DD}$ Min
Output Load	15pF
Pullability	
( <b>T5HV: <math>V_c = 1.65V \pm 1.0V</math></b> ) <sup>1</sup>	±3 ~ ±20 PPM min
Aging per year	±1.0 PPM
Startup Time ( $T_s$ )	2.0 mS Max
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



Available Options by Stability & Operating Temp				
Operating Temperature	±1 PPM	±1.5 PPM	±2 PPM	±2.5 PPM
-30 ~ +85°C	O	O	O	O
-40 ~ +85°C	X	O	O	O

Key: O = Available, X = Not Available

<sup>1</sup>For proper operation, a control voltage ( $V_c$ ) must be applied to pin 1 of VCTCXO's. All specifications subject to change without notice.

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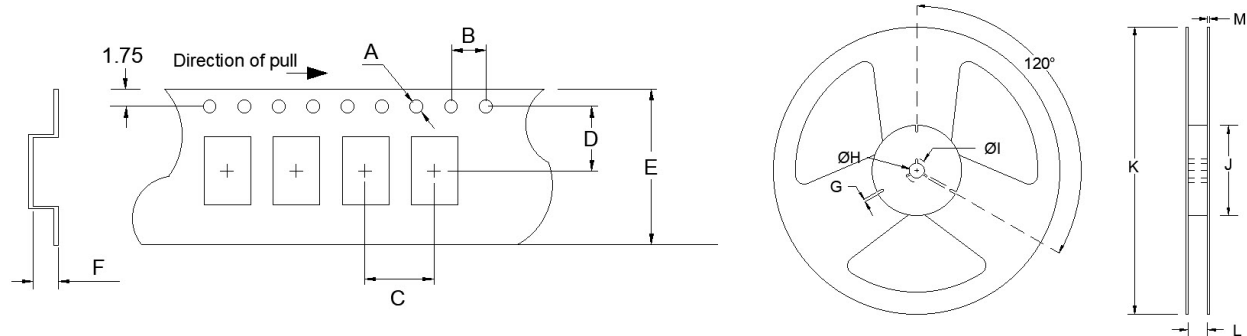
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TAPE SPECIFICATIONS (mm)							REEL SPECIFICATIONS (mm)						
A	B	C	D	E	F	REEL QTY	G	H	I	J	K	L	M
ø1.5	4.0	8.0	5.5	12.0	1.7	-T1 = 1,000	2.0	ø13	ø21	ø80	ø180	13.5	2.0



## Available Options & Part Identification for VCTCXO Model T5HV<sup>1</sup>

Sample PN: FT5HVBPK25.0-T1

F	T5HV	B	P	K	25.0	-T1
<b>Fox</b>	<b>Model Number</b> T5HV = VCTCXO	<b>Voltage</b> B = +3.3V±5%	<b>Stability</b> T = ±1.0 PPM S = ±1.5 PPM R = ±2.0 PPM P = ±2.5 PPM	<b>Operating Temperature</b> K = -30 to +85°C M = -40 to +85°C	<b>Frequency (MHz)</b>	<b>Values Added Options</b> Blank = Bulk T1 = 1,000 pcs

<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