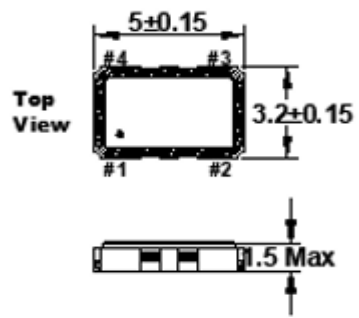
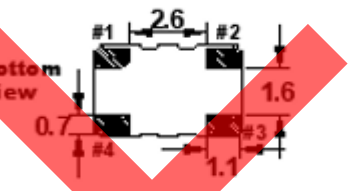
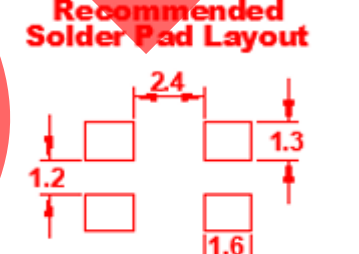


Features

- 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 $\pm$ 5%
Input Current (I_{DD})	6.0 mA
Initial Frequency Tolerance @ 25°C (after reflow) ($T5CV: V_c = 1.65V$) ¹	$\pm$ 2.0 PPM
Frequency Stability	
Over Temperature Range	See table below
Over Supply Voltage Change (3.3V $\pm$ 5%)	$\pm$ 0.3 PPM
Over Load Change (15pF $\pm$ 5%)	$\pm$ 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	
($T5HV: V_c = 1.65V \pm 1.0V$) ¹	$\pm$ 3 ~ $\pm$ 20 PPM min
Aging per year	$\pm$ 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

DIMENSIONS / MECHANICAL SPECIFICATIONS	
 Top View	
 Bottom View	
Recommended Solder Pad Layout  Dimensions in mm	
Pin Connections VCTCXO #1 V_c #3 Output #2 GND #4 V_{DD}	

Available Options by Stability & Operating Temp				
Operating Temperature	$\pm$ 1 PPM	$\pm$ 1.5 PPM	$\pm$ 2 PPM	$\pm$ 2.5 PPM
-30 ~ +85°C	O	O	O	O
-40 ~ +85°C	X	O	O	O
Key: O = Available, X = Not Available				

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

FT5HV

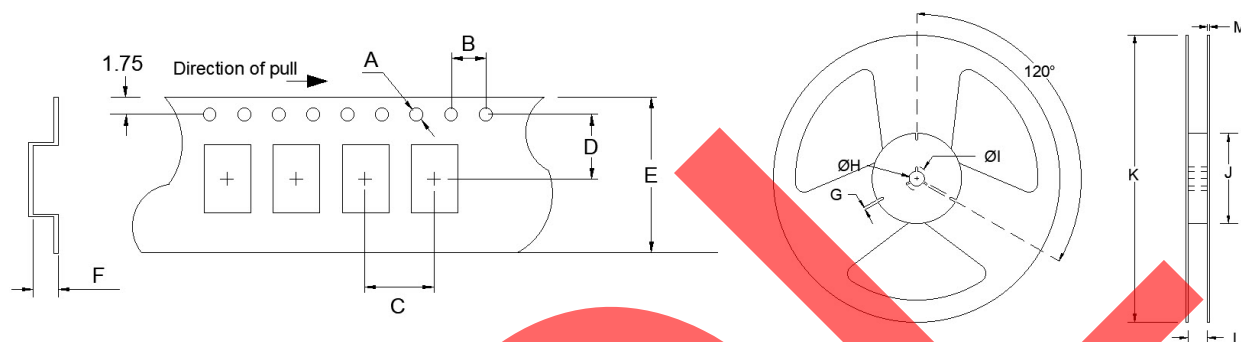
(Former FOX924E)

5.0mm x 3.2mm

HCMOS 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	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 T5HV¹

Sample PN: **FT5HVBPK25.0-T1**

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