

ELECTRICAL CHARACTERISTICS	
PARAMETERS	MAX (Unless otherwise noted)
Storage Temperature Range	-55°C ~ +125°C
Frequency Stability Overall (1 hour after reflow)	±2.0 PPM
Frequency Stability Overall (including 20 years aging) ¹	±4.6 PPM
Vs Supply Voltage	±0.2 PPM
Vs Load (±10%)	±0.2 PPM
Supply Voltage (V _{DD})	3.3V ± 5%
Input Current (I _{DD})	6 mA
Rise Time (10% ~ 90% V _{DD}) (T _R)	5nS
Fall Time (90% ~ 10% V _{DD}) (T _F)	5nS
Output Symmetry (50% V _{DD})	45% ~ 55%
Output Voltage (HCMOS) Output Low (V _{OL})	10%V _{DD}
Output High (V _{OH})	90%V _{DD} Min
Output Load	15pF Nom
Start-up Time (T _S)	2 mS
Pullability (VCTCXO) (V _c = 1.5±1.0V) ²	±5 PPM Min
Vc Input Impedance	100kohms Min
Phase Noise (12.8 MHz) @100Hz	-120dBc Typ.
@1kHz	-140dBc Typ.
@10kHz	-148dBc Typ.
Maximum Soldering Temp / Time	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au

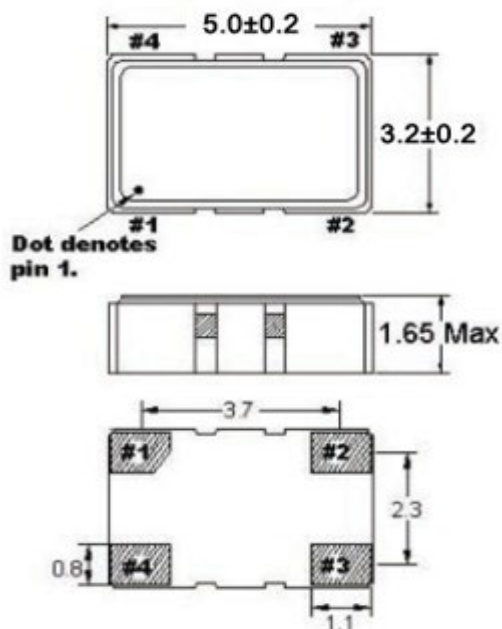
AVAILABLE FREQUENCIES		
10.000MHz	12.800MHz	19.200MHz
19.440MHz	20.000MHz	24.576MHz
25.000MHz	26.000MHz	30.720MHz
38.880MHz	40.000MHz	

¹ Inclusive of initial frequency tolerance, operating temperature range, 20 years aging, Input voltage change, load change, shock and vibration.

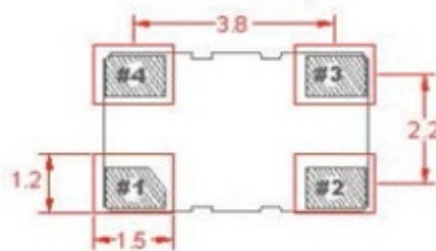
² For proper operation, a control voltage (V_c) must be applied to pin 1 on VCTCXOs.

The above specifications, having been carefully prepared and checked, is believed to be accurate at the time of publication; however, no responsibility is assumed by Fox Electronics for inaccuracies.

DIMENSIONS / MECHANICAL SPECIFICATIONS



Recommended Solder Pad Layout



All dimensions are in millimeters.

Pin Connection

#1 V_c/NC #3 Output

#2 GND #4 V_{DD}

Note:

*Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations, etc. may vary

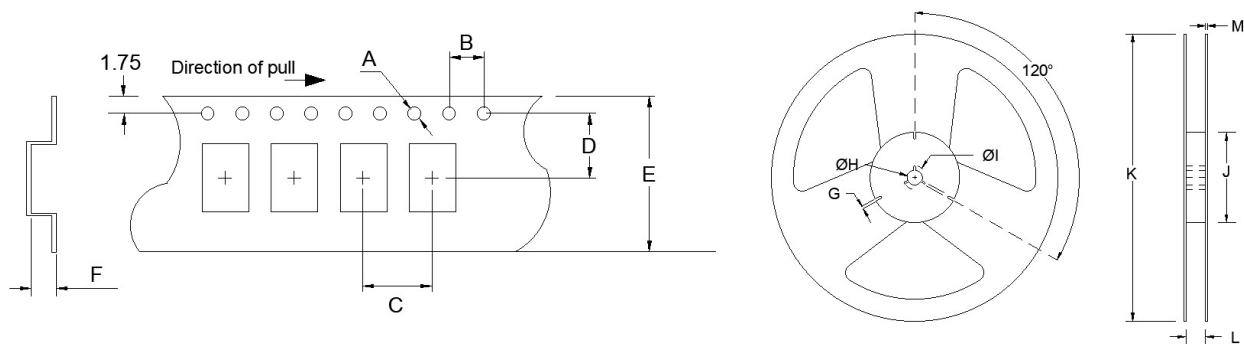
FT5SV

(Former FOX321E)

5.0mm x 3.2mm

SMD Stratum III HCMOS VCTCXO **FOX**

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 T5SV¹

Sample PN: **FT5SVBKF25.0-T1**

F	T5SV	B	K	F	25.0	-T1
Fox	Model Number T5SV = VCTCXO	Voltage B = +3.3V±5%	Stability G = ±100 PPB K = ±0.28 PPM	Operating Temperature F = -20 to +70°C M = -40 to +85°C	Frequency (MHz)	Values Added Options Blank = Bulk T1 = 1,000 pcs

Reliability Test Conditions

Please contact Abracon Quality Assurance department

Mouser Electronics

Authorized Distributor

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ABRACON:

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[FT5SNBKK19.2-T1](#) [FT5SNBKM12.0-BULK](#) [FT5SNBTK19.2-T1](#) [FT5SNBKM25.0-BULK](#) [FT5SNBKM40.0-BULK](#)
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