

ELECTRICAL CHARACTERISTICS	
PARAMETERS	MAX (Unless otherwise noted)
Storage Temperature Range	-55°C ~ +125°C
Frequency Stability Overall (including 20 years aging) ¹	±4.6PPM
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}) Output High (V _{OH})	10%V _{DD} 90%V _{DD} Min
Output Current (I _{OL}) (I _{OH})	6mA Min -6mA Min
Output Load	15pF Nom
Start-up Time (T _S)	2 mS
Pull ability (VCTCXO) (V _c = 1.65±1.65V) ²	±5PPM Min
Phase Noise (12.8 MHz) @100Hz @1kHz @10kHz	-120dBc Typ. -140dBc Typ. -148dBc Typ.
Maximum Soldering Temp / Time	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au

ENABLE / DISABLE FUNCTION	
(Pin 9)	Output (pin 6)
OPEN ¹	Active
'1' Level V _{IH} ≥ 70%V _{DD}	Active
'0' Level V _{IL} ≤	High Z

AVAILABLE FREQUENCIES		
10.000MHz	12.800MHz	16.384MHz
19.200MHz	19.440MHz	20.000MHz
26.000MHz	27.000MHz	40.000MHz

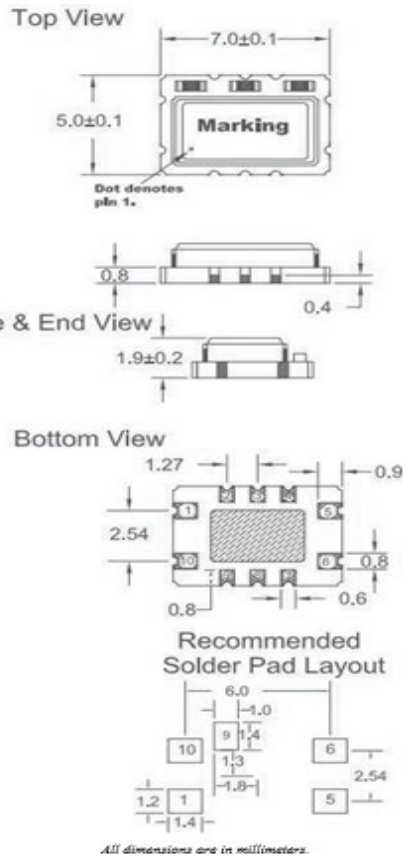
¹ Inclusive of initial frequency tolerance, operating temperature range, 20 years aging, input voltage change, load change, shock and vibration.

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

³ An internal pull up resistor from pin 9 to pin 10 allows active output if pin 9 is left open.

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



Pin Connections

VCTCXO

#1 V _C	#6 Output
#2 NC	#7 NC
#3 NC	#8 NC
#4 NC	#9 E/D
#5 GND	#10 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

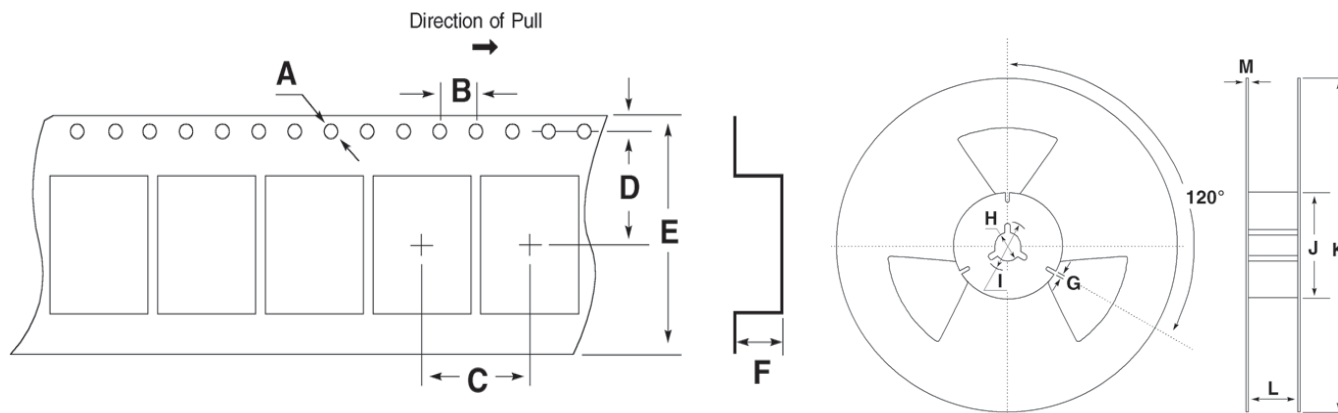
FT7SV

(Former FOX331 Series)

7.0mm x 5.0mm

SMD Stratum III HCMOS VCTCXO **FOX**

TAPE SPECIFICATIONS (mm)							REEL SPECIFICATIONS (mm)								
MODEL	A	B	C	D	E	F	REEL QTY	MODEL	G	H	I	J	K	L	M
FT7SV	Ø1.5	4.0	8.0	7.5	16.0	2.16	3,000	FT7SV	1.5	Ø13.5	Ø20.2	Ø100.0	Ø330	16.4	2.0



Available Options & Part Identification for VCTCXO Model T7SV¹

Sample PN: **FT7SVBKF25.0-T3**

F	T7SV	B	K	F	25.0	-T3
Fox	Model Number T7SV = VCTCXO	Voltage B = +3.3V±5%	Stability K = ±0.28 PPM Q = ±0.37 PPM	Operating Temperature F = -20 to +70°C M = -40 to +85°C	Frequency (MHz)	Values Added Options Blank = Bulk T3 = 3,000 pcs

Reliability Test Conditions

Please contact Abracon Quality Assurance department

Mouser Electronics

Authorized Distributor

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ABRACON:

[FT7SVBQM20.0-BULK](#) [FT7SVBQM40.0-BULK](#) [FT7SVBQM40.0-T1](#) [FT7SVBKF10.0-T1](#) [FT7SVBQM10.0-BULK](#)
[FT7SVBKF10.0-BULK](#) [FT7SVBKM10.0-BULK](#) [FT7SVBKM10.0-T1](#) [FT7SVBQM10.0-T1](#)