FT9CV

(Former FOX801AELF/ FOX801BELF Series)

11.4mm x 9.6mm

Clipped Sine, VCTCXO

FEATURES

- 2.0mm Height Max
- Internal Trim
- Clipped Sine Output
- Tape and Reel (1,000 pcs. STD)

OPTIONS

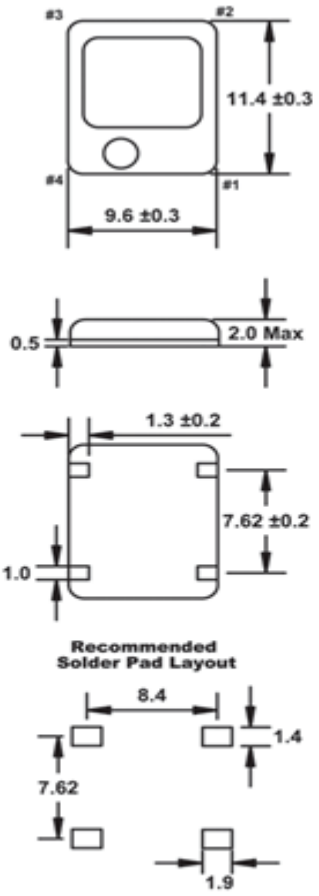
- 5.0V
- 3.0V

ELECTRICAL CHARACTERISTICS	
PARAMETERS	**MAX (Unless otherwise noted)**
Frequency Range (F_O)	9.600 ~ 50.000 MHz
Temperature Range	
Operating (T_{OPR})	-30˚C ~ +75˚C
Storage (T_{STG})	-35˚C ~ +80˚C
Initial Frequency Tolerance (@25˚C)	
V_C = 1.5V (V_{DD} = 3.0V)	±0.5PPM
V_C = 2.5V (V_{DD} =5.0V)	
Supply Voltage (V_{DD})	5.0V ± 5%
	3.0V ± 5%
Input Current (I_{DD})	
9.600 ~ 21.999MHz	2.0mA
21.999+ ~ 27.999 MHz	3.0mA
27.999+ ~ 39.999 MHz	4.0mA
39.999+ ~ 50.000 MHz	5.0mA
Frequency Stability	
Over Temperature Range	±2.5PPM
Over Supply Voltage Change (V_{DD} ± 5%)	
9.600 ~ 21.999 MHz	±0.3PPM
21.999+ ~ 27.999 MHz	±0.5PPM
27.999+ ~ 50.000 MHz	±1.0PPM
Over Load Change (10KΩ ± 10% // 10pF ± 10%)	±0.3PPM
Output Waveform (Clipped Sine)	
Peak to Peak Level (Vp-p)	
5.0V Version: 9.600 ~ 15.999 MHz	1.0V Min
5.0V Version: 16.000 ~ 50.000 MHz	0.8V Min
3.0V Version: 9.600 ~ 15.999 MHz	0.8V Min
3.0V Version: 16.000 ~ 50.000 MHz	0.7V Min
Output Load	10KΩ // 10pF ±10%
Frequency Adjustment (Internal Trimmer)	±3.0PPM Min
Voltage Control Option (VCTCXO)1	±5.0PPM Min
(Vc=1.5±1.0V, V_{DD} = 3.0V)	
(Vc=2.5±1.0V, V_{DD} = 5.0V)	
Aging per year	1.0PPM

[1] For proper operation, a control voltage (Vc) must be applied to pin 1 on VCTCXOs

All specifications subject to change without notice.

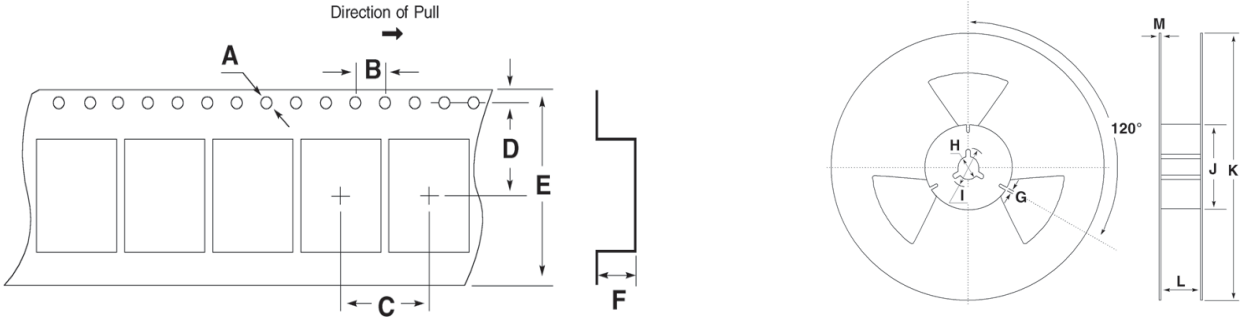
DIMENSIONS / MECHANICAL SPECIFICATIONS



Pin Connection

#1 Vc	**#3 Output**
#2 GND	**#4 V_{DD}**

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	12.0	11.5	24.0	2.7	1,000	2.0	Ø13	Ø21	Ø80	Ø330	25.5	1.6



Available Options & Part Identification for VCTCXO Model T9CV [1]

Sample PN: FT9CVDPH25.0-T1

F	T9CV	D	P	H	25.0	-T1
Fox	**Model Number** **T9CV = VCTCXO**	**Voltage** **D = +3V±5%** P = +5V±5%	**Stability** **P = ±2.5 PPM**	**Operating Temperature** **H = -30 to +75°C**	**Frequency (MHz)**	**Values Added Options** Blank = Bulk **T1 = 1,000 pcs**

Note 1: Not all frequencies in the frequency range, or every combination of stability, temp range, and voltage available

Reliability Test Conditions
Please contact Abracon Quality Assurance department