

FEATURES

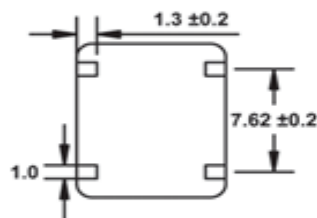
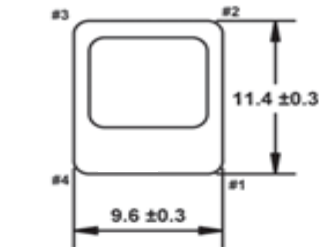
- 2.0mm Height Max
- Tight Stability
- Clipped Sine Output
- Tape and Reel (1,000 pcs. STD)

OPTIONS

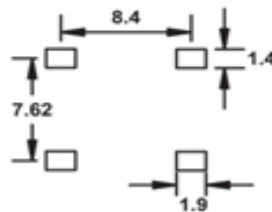
- 5.0V
- 3.0V

ELECTRICAL CHARACTERISTICS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range (F_0)	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)	
$V_C = 1.5V$ ($V_{DD} = 3.0V$)	±2.0PPM
$V_C = 2.5V$ ($V_{DD} = 5.0V$)	
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 ($V_{DD} \pm 5\%$)	
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 (V_{p-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)	Trimmer less
Voltage Control Option (VCTCXO)	
($V_C = 1.5 \pm 1.0V$, $V_{DD} = 3.0V$)	±8.0PPM Min
($V_C = 2.5 \pm 1.0V$, $V_{DD} = 5.0V$)	
Aging per year	1.0PPM

DIMENSIONS / MECHANICAL SPECIFICATIONS



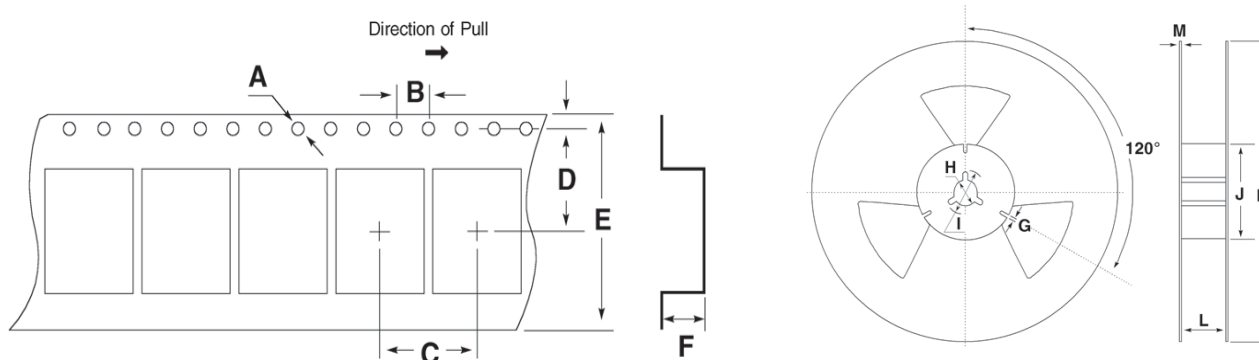
Recommended Solder Pad Layout



Pin Connection

#1 V _c	#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 T9CT¹

Sample PN: **FT9CTDPH25.0-T1**

F	T9CT	D	P	H	25.0	-T1
Fox	Model Number T9CT = 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

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