2.0 x 1.6 mm TCXO / VCTCXO

T1CN/T1CV

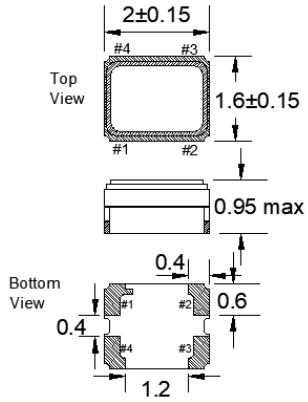
DATASHEET

- Analog Temperature Compensation

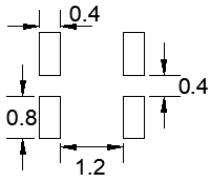
ELECTRICAL CHARACTERISTICS

PARAMETERS	**MAX** (unless otherwise noted)
Frequency Range (Fo)	8.000 ~ 52.000 MHz
Temperature Range **Operating (T_{OPR})** **Storage (T_{STG})**	 -30°C ~ +85°C -40°C ~ +85°C
Supply Voltage (V_{DD})	1.8V±5% ~ 3.0V±5%[1] (See ordering guide on page 2)
Input Current (I_{DD}) **8.0 ~ 32.0 MHz** **>32.0 ~ 52.0 MHz**	 1.5 mA 2.0 mA
Initial Frequency Tolerance @ 25°C (after reflow) **(VCTCXO: Vc = 0.5V_{DD})[2]**	±2 PPM
Frequency Stability **Over Temperature Range** **Over Supply Voltage Change (V_{DD}±5%)** **Over Load Change [(10kΩ//10pF)±10%]**	 (See ordering guide on page 2) ±0.1 PPM ±0.1 PPM
Output Waveform (Clipped Sine) **Peak-to-Peak Level (Vp-p)**	 0.8V min
Output Load	(10kΩ // 10pF)±10%
Pullability (VCTCXO) [2] **VDD = 1.8V: Vc = 0.9V±0.8V** **VDD = 3.0V: Vc = 1.5V±1.5V**	 ±8 ~ ±13 PPM nom
Aging per year	±1.0 PPM
Reflow Soldering Temp	260ºC / 10 Seconds x2
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au over Ni

MECHANICAL DIMENSIONS



Recommended Solder Pad Layout



Dimensions are in millimeters.

Pin Connections

T1CN		T1CV	
#1 GND	#3 Output	#1 Vc	#3 Output
#2 GND	#4 V_{DD}	#2 GND	#4 V_{DD}

[1] TCXO is operable from 1.7V to 3.3V. VCTCXO only operable at specified voltage.

[2] For proper operation, a control voltage (Vc) must be applied to pin 1 on VCTCXO's.

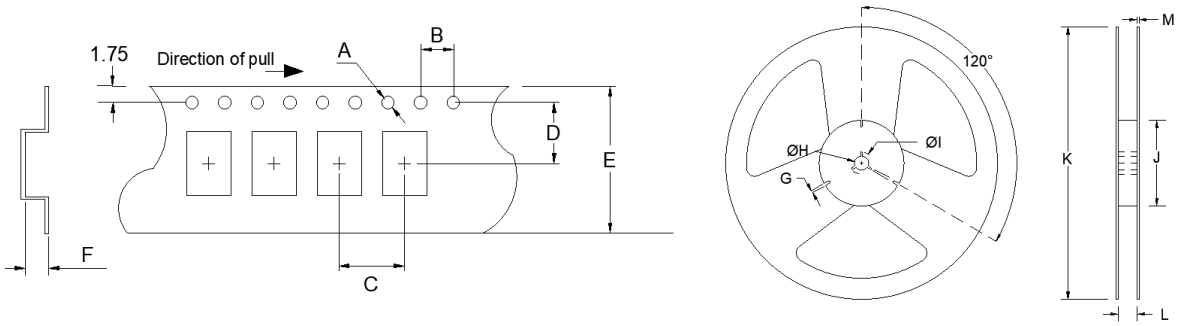
Note: A DC-Cut capacitor (1000pF) should be connected to the output.

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.

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Title / Description: T1CN/T1CV Series Specifications		
Drawing Number: T1CN-T1CV-DOC-1		**Size:** A
Part Number:		**Cage:** 61429
Draftsperson: MAJ	**Approved:** BEC	**Rev. Date:** 05/14/2020

TAPE SPECIFICATIONS (millimeters)								REEL SPECIFICATIONS (millimeters)						
A	B	C	D	E	F	Reel Qty		G	H	I	J	K	L	M
Ø1.5	4.0	4.0	3.5	8.0	1.4	-T3 = 3,000 -T2 = 2,000 -T1 = 1,000		2.0	Ø13	Ø21	Ø60	Ø180	9.0	1.4



Available Options & Part Identification

Example: F T1CV K R K 38.4

F	T1CV	K	R	K	38.4
Fox	Model Number	Voltage	Stability	Operating Temperature	Frequency
	T1CN = TCXO	K = 1.8V±5%	R = ±2.0PPM	K = -30 to +85C	
	T1CV = VCTCXO	D = 3.0V±5%	P = ±2.5PPM		

Corporate Headquarters
5570 Enterprise Parkway
Fort Myers, FL 33905
http://www.FOXONLINE.com

Sales
1-888-GET-2-FOX (1-888-438-2369) or
1-239-693-0099
http://www.FOXONLINE.com/repdisty

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