

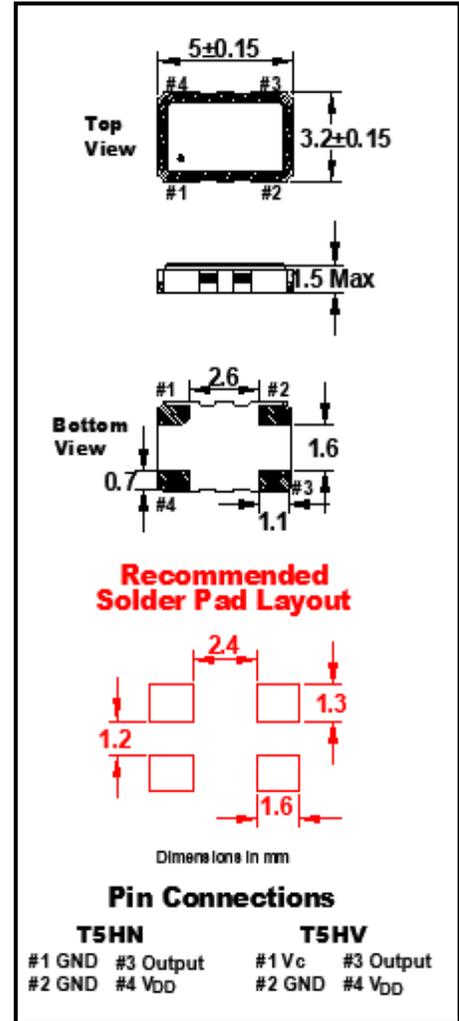


5.0x3.2mm HCMOS TCXO/VCTCXO

T5HN/T5HV
(former FOX924B, FOX924E)
DATASHEET

- Digital Temperature Compensation

ELECTRICAL CHARACTERISTICS	
PARAMETERS	MAX (unless otherwise noted)
Frequency Range (MHz)	8.000 ~ 40.000
Temperature Range	
Operating (T _{OPR})	See table below
Storage (T _{STG})	-40°C ~ +85°C
Supply Voltage (V _{DD})	+3.3 VDC ± 5%
Input Current (I _{DD})	6.0mA
Initial Frequency Tolerance @ 25°C (after reflow) (T5HV: V _c = 1.65V) ¹	±2.0 PPM
Frequency Stability	
Over Temperature Range	See table below
Over Supply Voltage Change (3.3V±5%)	±0.3 PPM
Over Load Change (15pF ±5%)	±0.3 PPM
Rise Time (0.5V ~ 80% V _{DD})	10nS
Fall Time (80% V _{DD} ~ 0.5V)	10nS
Symmetry (50% V _{DD})	40% ~ 60%
Output Voltage (V _{OL})	0.5V
(V _{OH})	80% V _{DD} Min
Output Load	15pF
Pullability (T5HV: V _c = 1.65V±1.0V) ¹	±3 ~ ±20 PPM min
Aging per year	±1.0 PPM
Startup Time (T _s) (to 90% output level)	2.0mS Max
Phase Noise @ 1kHz offset	-130 dBc/Hz Typical
Reflow Soldering Temp	260°C / 10 Seconds x 2
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au over Ni
Lead-Free	Yes
RoHS/REACH Compliant	Yes



Operating Temperature	±1 PPM	±1.5 PPM	±2 PPM	±2.5 PPM
-30 ~+85°C	O	O	O	O
-40 ~+85°C	X	O	O	O

Key: O=Available, X=Not Available

¹For proper operation, a control voltage (V_c) must be applied to pin 1 of VCTCXO's.
All specifications subject to change without notice.



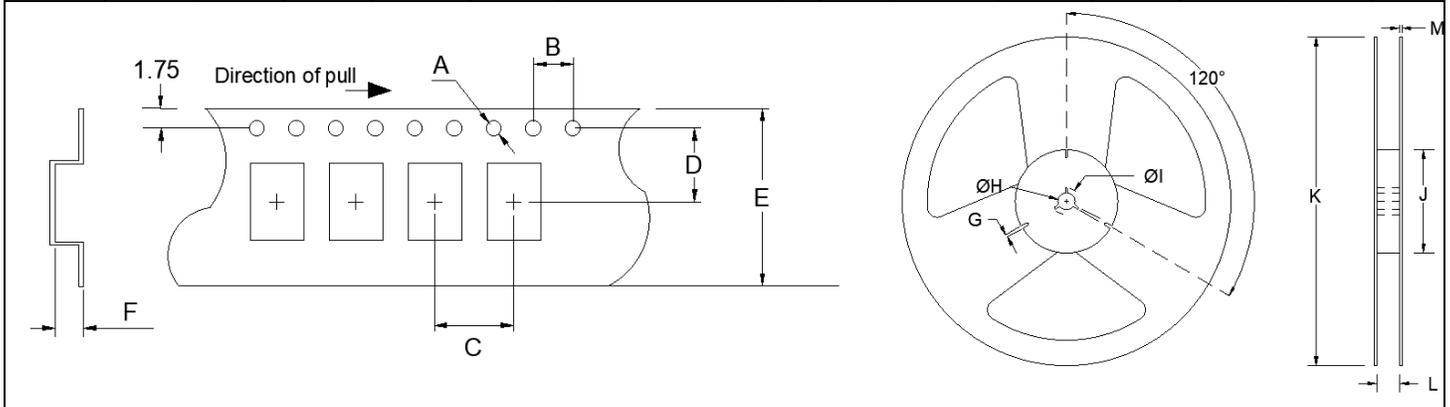
Title / Description: T5HN/T5HV SERIES STANDARD SPECIFICATIONS	
Drawing Number: T5HN_T5HV-DOC-1	Size: A
Part Number:	Cage: 61429
Draftsperson: MAJ	Approved: BEC
Revision Date: 09/03/2019	



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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	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 TCXO Model T5HN/T5HV¹

F T5HN B P K 25.0

F	T5HN	B	P	K	25.0
<u>FOX</u>	<u>Model Number</u> T5HN = TCXO T5HV = VCTCXO	<u>Voltage</u> B = +3.3V±5%	<u>Stability</u> T = ±1.0 PPM S = ±1.5 PPM R = ±2.0 PPM P = ±2.5 PPM	<u>Operating Temperature</u> K = -30 to +85°C M = -40 to +85°C	<u>Frequency (MHz)</u>

¹ Not all frequencies in the frequency range, or every combination of stability, temp range, and voltage available. See stabilities/operating temp table.



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