

5.0x3.2mm HCMOS TCXO/VCTCXO

T5HN/T5HV (former FOX924B, FOX924E) DATASHEET

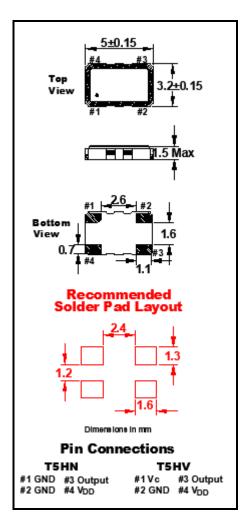
Digital Temperature Compensation

ELECTRICAL CHARACTERISTICS				
PARAMETERS	MAX (unless otherwise noted)			
Frequency Range (MHz)	8.000 ~ 40.000			
	See table below -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: Vc = 1.65V) ¹	±2.0 PPM			
Frequency Stability Over Temperature Range Over Supply Voltage Change (3.3V±5%) Over Load Change (15pF ±5%)	See table below ±0.3 PPM ±0.3 PPM			
Rise Time $(0.5 \text{V} \sim 80\% \text{ V}_{DD})$ Fall Time $(80\% \text{ V}_{DD} \sim 0.5 \text{V})$	10nS 10nS			
Symmetry (50% V _{DD})	40% ~ 60%			
Output Voltage (VoL) (Voн)	0.5V 80% V _{DD} Min			
Output Load	15pF			
Pullability (T5HV: Vc = 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	0	0	0	0
-40 ~+85°C	Х	0	0	0

Key: O=Available, X=Not Available

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



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Title / Description: T5HN/T3	Title / Description: T5HN/T3HV SERIES STANDARD SPECIFICATIONS						
Drawing Number: T5HN_T	Drawing Number: T5HN T5HV-DOC-1						
Part Number:	Part Number:						
Draftsperson: MAJ	Approved: BEC	Revision Date: 05/21/2019					



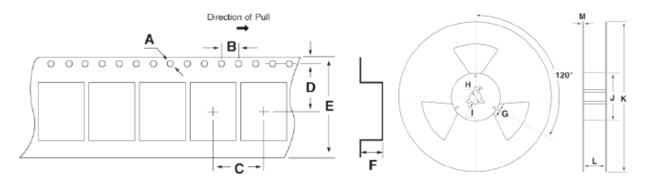
5.0x3.2mm HCMOS TCXO/VCTCXO

T5HN/T5HV

(former FOX924B, FOX924E)

DATASHEET

	Tape Specifications (millimeters)				Reel S	pecifica	tions (1	millimet	ers)				
A	В	C	D	E	F	Reel Qty	G	Н	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 T3HN/T3HV¹ F T5HN B P K 25.0

F	T5HN	В	Р	K	25.0
<u>FOX</u>	Model <u>Number</u>	<u>Voltage</u> B = +3.3V±5%	Stability T = ±1.0 PPM S = ±1.5 PPM R = ±2.0 PPM P = ±2.5 PPM	Operating <u>Temperature</u> K = -30 to +85°C M = -40 to +85°C	Frequency <u>(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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Title / Description: T5HN/T3HV SERIES STANDARD SPECIFICATIONS					
Drawing Number: T5HN_T	Size: A				
Part Number:	Cage: 61429				
Draftsperson: MAJ	Approved: BEC	Revision Date: 05/21/2019			