FT5HN

(Former FOX924B)

5.0mm x 3.2mm

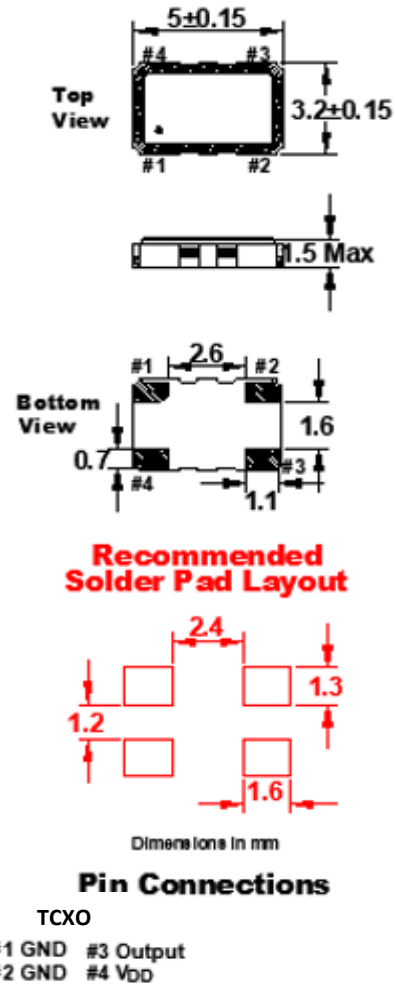
HCMOS TCXO

Features

- Digital Temperature Compensation

STANDARD SPECIFICATIONS	
PARAMETERS	**MAX (Unless otherwise noted)**
Frequency Range (MHz)	8.000 ~ 40.000
Temperature Range Operating (T_{OPR}) Storage (T_{STG})	 See table below -40°C ~ +85°C
Supply Voltage (V_{DD})	3.3 VDC±5%
Input Current (I_{DD})	6.0 mA
Initial Frequency Tolerance @ 25°C (after reflow) (T5CV: V_c = 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 (0.5V ~ 80% V_{DD}) Fall Time (80% V_{DD} ~ 0.5V)	10 nS 10 nS
Symmetry (50% V_{DD})	40% ~ 60%
Output Voltage (V_{OL}) (V_{OH})	0.5V 80% V_{DD} Min
Output Load	15pF
Aging per year	±1.0 PPM
Startup Time (T_S)	2.0 mS 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

DIMENSIONS / MECHANICAL SPECIFICATIONS



Recommended Solder Pad Layout

Dimensions in mm

Pin Connections

TCXO

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

Available Options by Stability & Operating Temp				
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				

[1] All specifications subject to change without notice.

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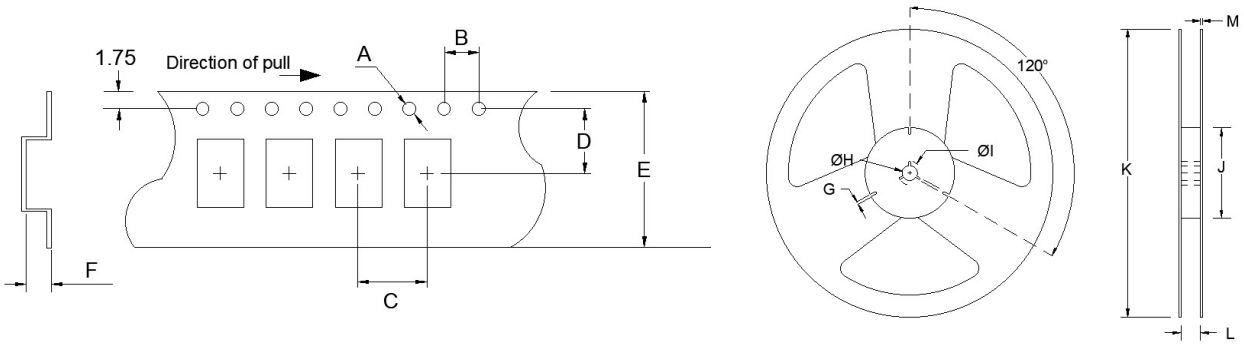
TAPE SPECIFICATIONS (mm)							REEL SPECIFICATIONS (mm)						
A	B	C	D	E	F	REEL QTY	G	H	I	J	K	L	M
ø1.5	4.0	8.0	5.5	12.0	1.7	-T1 = 1,000	2.0	Ø13	Ø21	Ø80	Ø180	13.5	2.0



Available Options & Part Identification for TCXO Model T5HN [1]						
Sample PN: **FT5HNBPK25.0-T1**						
F	**T5HN**	**B**	**P**	**K**	**25.0**	**-T1**
Fox	**Model Number** **T5HN = TCXO**	**Voltage** **B = +3.3V±5%**	**Stability** T = ±1.0 PPM S = ±1.5 PPM R = ±2.0 PPM **P = ±2.5 PPM**	**Operating Temperature** **K = -30 to +85°C** M = -40 to +85°C	**Frequency (MHz)**	**Values Added Options** Blank = Bulk **T1 = 1,000 pcs**

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

Reliability Test Conditions
Please contact Abracon Quality Assurance department