

## Features

- Analog Temperature Compensation
- Enable/Disable - Standby

STANDARD SPECIFICATIONS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range (MHz)	8.0 ~ 52.000
Temperature Range	
Operating ( $T_{OPR}$ )	See table below
Storage ( $T_{STG}$ )	-40°C ~ +125°C
Supply Voltage ( $V_{DD}$ ) ( $\pm 5\%$ )	1.8V; 2.5V; 2.7V; 2.8V; 3.0V; 3.3V
Input Current ( $I_{DD}$ )	2mA
Initial Frequency Tolerance @ 25°C (1hr after reflow)	$\pm 2.0$ PPM
Frequency Stability	
Over Temperature Range	See table below
Over Supply Voltage Change ( $V_{DD} \pm 5\%$ )	$\pm 0.2$ PPM
Over Load Change (15pF $\pm 10\%$ )	$\pm 0.2$ PPM
Output Voltage Level	0.8V <sub>p-p</sub> min
Output Load	[10k $\Omega$ //10pF] $\pm 10\%$
Aging per year	$\pm 1.0$ PPM
Startup Time ( $T_S$ )	2.0 mS
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
Seal Method	Seam
Lead-Free	Yes
RoHS/REACH Compliant	Yes

Available Options by Stability & Operating Temp				
Operating Temperature	$\pm 1$ PPM	$\pm 1.5$ PPM	$\pm 2$ PPM	$\pm 2.5$ PPM
-30 ~ +85°C	O	O	O	O
-40 ~ +85°C	X	X	O	O
Key: O = Available, X = Not Available				

DIMENSIONS / MECHANICAL SPECIFICATIONS	
<p><b>Top View</b></p>	
<p><b>Bottom View</b></p>	
<p><b>Recommended Solder Pad Layout</b></p>	
<p><i>Dimensions are in millimeters.</i></p>	
<p><b>Pin Connections</b></p> <p>#1 Gnd #2 N.C. #3 Gnd #6 Vdd #5 N.C. #4 Out</p>	
<p>*Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations, reference pin shape, etc. may vary *All specifications subject to change without notice.</p>	

Note: A  $\geq 1nF$  (10nF recommended) DC-Cut capacitor shall be connected to the output.

# FT2CN

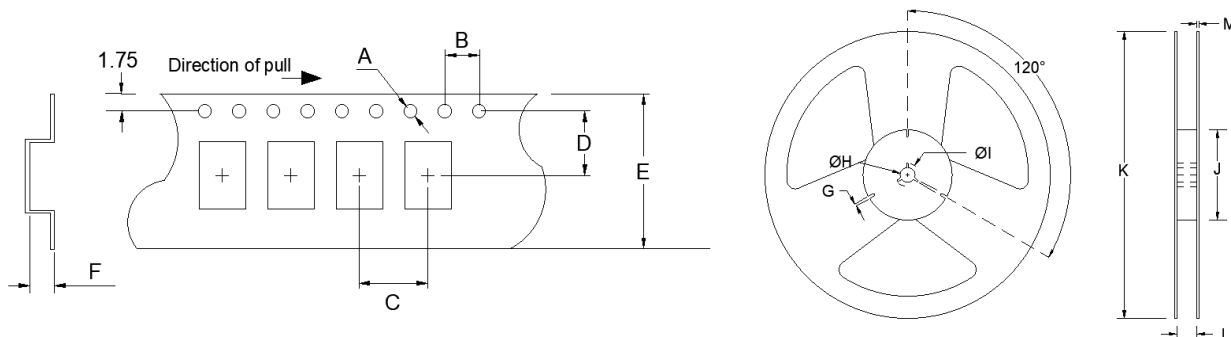
(Former FOX251)

2.5mm x 2.0mm

SCW TCXO



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	4.0	3.5	8.0	1.4	-T3 = 3,000 -T2 = 2,000 -T1 = 1,000	2.0	ø13	ø20.2	ø60	ø180	9.0	1.4



## Available Options & Part Identification for TCXO Model T2CN<sup>1</sup>

Sample PN: **FT2CNBPK26.0-T3**

F	T2CN	B	P	K	26.0	-T3
<b>Fox</b>	<b>Model Number</b> T2CN = TCXO	<b>Tolerance</b> B = +3.3V±5% D = +3.0V±5% Q = +2.8V±5% S = +2.7V±5% H = +2.5V±5% K = +1.8V±5%	<b>Stability</b> T = ±1.0 PPM S = ±1.5 PPM R = ±2.0 PPM P = ±2.5 PPM	<b>Operating Temperature</b> K = -30 to +85°C M = -40 to +85°C	<b>Frequency (MHz)</b>	<b>Values Added Options</b> Blank = Bulk T1 = 1,000 pcs T2 = 2,000 pcs T3 = 3,000 pcs

<sup>1</sup> Not all frequencies in the frequency range available.

### Reliability Test Conditions

Please contact Abracon Quality Assurance department