

ELECTRICAL CHARACTERISTICS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range	10.0 – 40.0 MHz
Storage Temperature Range	-55°C ~ +125°C
Frequency Stability Overall (including 20 years aging) ¹	±4.6 ppm
Frequency Stability over temperature	±0.28 ppm (See Table)
Supply Voltage (V _{DD})	3.3V ± 5%
Input Current (I _{DD})	8 mA
Rise Time (10% ~ 90% V _{DD}) (T _R)	6nS
Fall Time (90% ~ 10% V _{DD}) (T _F)	6nS
Output Symmetry (50% V _{DD})	45% ~ 55%
Output Voltage (HCMOS) Output Low (V _{OL}) Output High (V _{OH})	10%V _{DD} 90%V _{DD} Min
Output Current (I _{OL}) (I _{OH})	6mA Min -6mA Min
Output Load	15pF
Start-up Time (T _S)	10 mS
Phase Noise (12.8 MHz) @100Hz @1kHz @10kHz	-120dBc Typ. -140dBc Typ. -148dBc Typ.
Maximum Soldering Temp / Time	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au

ENABLE / DISABLE FUNCTION	
(Pin 9)	Output (pin 6)
OPEN ²	Active
'1' Level V _{IH} ≥ 70%V _{DD}	Active
'0' Level V _{IL} ≤ 30% V _{DD}	High Z

AVAILABLE FREQUENCIES		
10.000MHz	12.800MHz	16.384MHz
19.200MHz	19.440MHz	20.000MHz
26.000MHz	27.000MHz	40.000MHz

¹ Inclusive of initial frequency tolerance, operating temperature range, 20 years aging, input voltage change, load change.

² An internal pull up resistor from pin 9 to pin 10 allows active output if pin 9 is left open.

DIMENSIONS / MECHANICAL SPECIFICATIONS

Top View

7.0±0.1

5.0±0.1

Marking

Dot denotes pin 1.

Side & End View

0.85

0.4

1.9±0.2

Bottom View

1.27

0.9

2.54

0.8

0.6

Recommended Solder Pad Layout

6.0

1.0

1.4

1.3

1.9

1.2

2.54

All dimensions are in millimeters.

Pin Connections

TCXO

#1 NC	#6 Output
#2 NC	#7 NC
#3 NC	#8 NC
#4 NC	#9 E/D
#5 GND	#10 V _{DD}

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

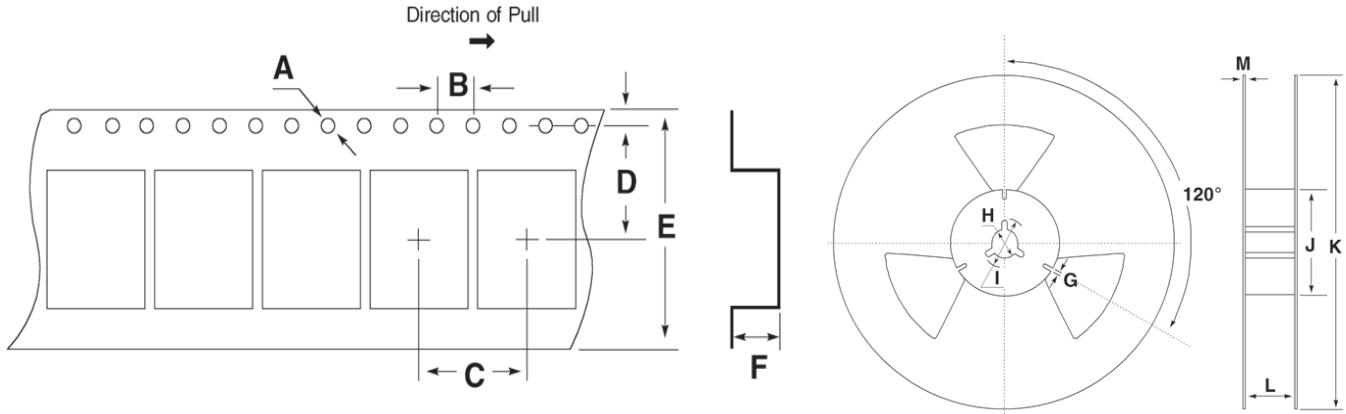
FT7SN

(Former FOX331 Series)

7.0mm x 5.0mm
SMD Stratum III HCMOS TCXO **FOX**



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	7.5	16.0	2.16	1,000	1.5	Ø13.5	Ø20.2	Ø60	Ø180	16.4	2.0



Available Options & Part Identification for TCXO Model FT7SN

Sample PN: **FT7SNBKF26.0-T**

F	T7SN	B	K	F	26.0	-T
<u>Fox</u>	<u>Model Number</u> T7SN = TCXO	<u>Voltage</u> B = +3.3V±5%	<u>Stability</u> K = ±0.28 PPM Q = ±0.37 PPM	<u>Operating Temperature</u> F = -20 to +70°C M = -40 to +85°C	<u>Frequency (MHz)</u>	<u>Values Added Options</u> Blank = Bulk T = 1,000 pcs

Reliability Test Conditions

Please contact Abracon Quality Assurance department