



Accurate Kinetic Energy

No.11-3 Jianguo Rd., T.E.P.Z. 42760 Taiwan, ROC

All dimensions are millimeters.

CAD: TCR

Review: EG

Appr: JL

Page: 1/4 Date: October 9, 2025

Specification Title:

Temperature Compensated
Crystal Oscillator
TCXO - Ceramic Package
1.6 x 1.2 millimeter Surface Mount

Part Number: TX16 Series

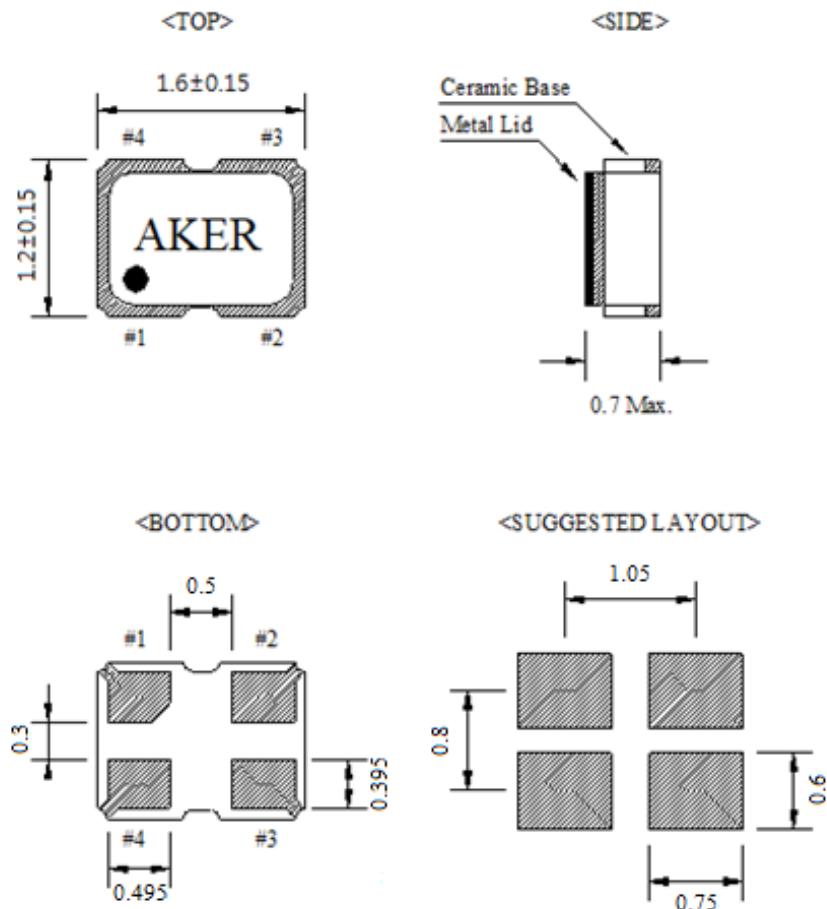
Electrical Specifications:

Frequency Range	10.000 to 52.000		MHz	
Frequency Tolerance	± 2.0		ppm Max.	
Frequency Stability vs. Operating Temperature	$\pm 0.5 \sim \pm 2.0$			
Frequency Stability vs. Supply Voltage Change	± 0.2			
Frequency Stability vs. 10% Load Change	± 0.2			
Aging per Year	± 1.0		°C	
Operating Temperature Range	Standard	-30 to +85		
	Extended	-40 to +85		
Storage Temperature Range	-40 to +85			
Supply Voltage	1.8 $\pm 5\%$		VDC	
	2.5 $\pm 5\%$			
	3.3 $\pm 5\%$			
	1.68 ~ 3.63			
Input Current	2.5		mA Max.	
Output Level	0.8		Vp-p Min.	
Output Waveform	Clipped Sinewave			
Output Load	10K Ω // 10pF			
Phase Noise	@100Hz Offset	-114	dBc/Hz Typ.	
	@1KHz Offset	-131		
	@10KHz Offset	-148		
Start Up Time	2		ms Max.	

RoHS Compliant
Pb - Lead Free

Ltr	Revisions	Date	Appr

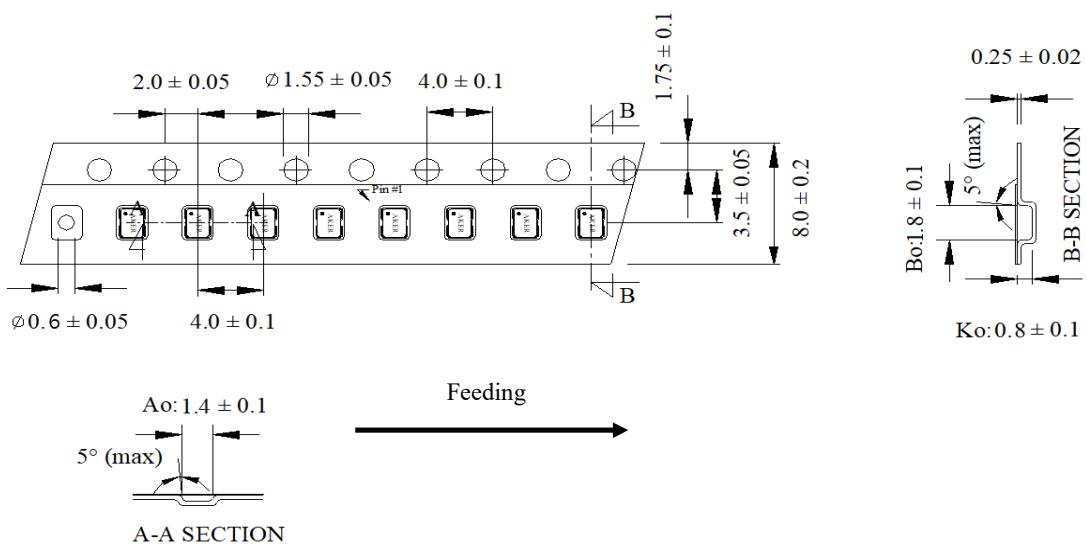
Mechanical Outline and Solder Pad Layout:



PIN No.	Connection
#1	NC / GND
#2	GND
#3	Output
#4	VDC

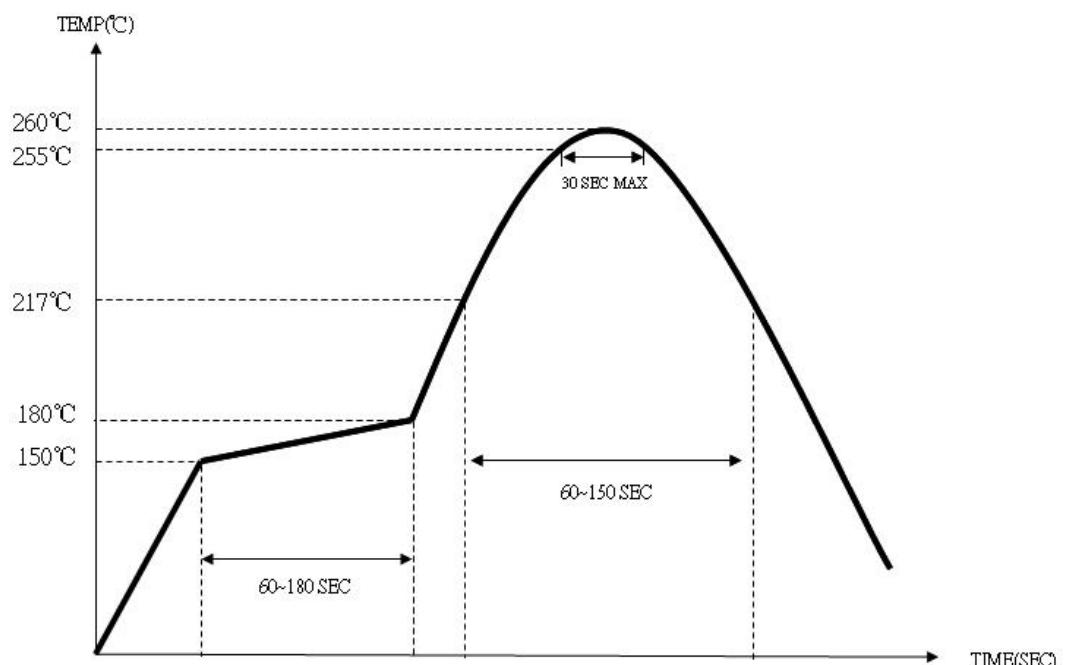
Package is Seam Sealed Ceramic-Metal.
Dimensions are millimeters.

Carrier Tape Dimensions:



Dimensions are millimeters.

Solder Reflow Characteristics:



How to build a Part Number:

Series	TX	Parameter
Package	16	1.6 x 1.2 mm
	-	
Supply Voltage	18	1.8 VDC ± 5%
	25	2.5 VDC ± 5%
	33	3.3 VDC ± 5%
	M	1.68 ~ 3.63 VDC
Temperature Stability	005	±0.5 ppm
	010	±1.0 ppm
	020	±2.0 ppm
Output Waveform	S	Clipped Sinewave
	-	
Frequency	10.000~52.000	MHz
	-	
Temperature Range	See Notes	-30 to +85 °C
	X	-40 to +85 °C
	-	
Packaging	M	250pcs Reel
	R	1000pcs Reel
	R3	3000pcs Reel

Part Number Example:

TX16-33020S-26.000-X-R

TX16: 1.6 x 1.2 mm SMD Package

33: +3.3 VDC Supply Voltage

020: ±2.0 ppm Temperature Stability

S: Clipped Sinewave Output

26.000 MHz Nominal Frequency

X: -40 to + 85°C Temperature Range

R: Tape and Reel Packaging

Notes:

- 1- Standard Temperature Range do not need to be included in Part Number description.
- 2- Product is shipped in Tape and Reel configuration.
- 3- Quantities less than 1000 pieces are shipped bulk in ESD pouches.
- 4- Specification subject to change without notice.