

# ECS-TXO-20CSMV4

Clipped Sine Wave TCXO  
MultiVolt™ Analog Compensation



ECS-TXO-20CSMV4 Clipped Sine Wave SMD TCXO MultiVolt™ capability of 1.7 ~ 3.6V. The 2.0 x 1.6 x 0.8 mm ceramic package uses Analog Compensation which is stability critical applications.

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## OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS



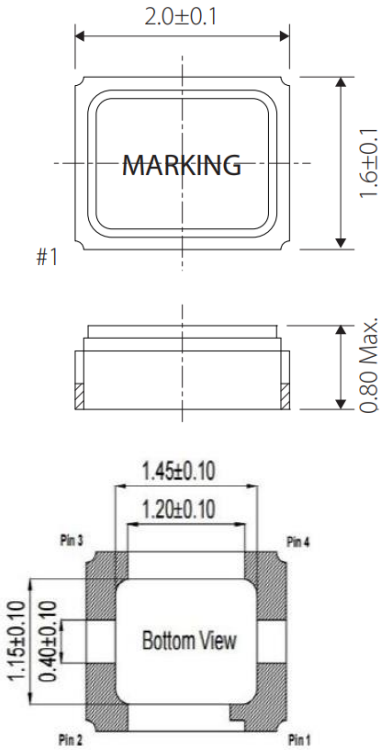
- Clipped Sine Wave TCXO
- 2.0 x 1.6 mm Footprint
- MultiVolt™ (1.7 ~ 3.6V)
- PbFree/RoHS Compliant
- MSL 1
- Lead Finish Au
- Compatible with 1.8V, 2.5V or 3.3V Power Supply

Parameters	Conditions	ECS-TXO-20CSMV4			Units
		MIN	TYP	MAX	
<b>Frequency Range</b>		10.000		52.000	MHz
<b>Frequency Tolerance</b>	@ +25°C ±2°C			±1.0	PPM
<b>Frequency Stability</b>	Vs. Temp (-40 ~ +85°C) AN Opt			±0.5	PPM
	Vs. Supply Change (±5%)			±0.1	PPM
	Vs. Load Change (±10%)			±0.1	PPM
	Vs. Aging 1 <sup>st</sup> Year			±1.0	PPM
<b>Input Voltage</b>	VDD	+1.7		+3.6	VDC
<b>Current Consumption</b>	10 ~ 26 MHz			1.5	mA
	26.1 ~ 52 MHz			2.0	mA
<b>Output Level</b>	Clipped Sine Wave	0.8			V p-p
<b>Output Load</b>		10KΩ//10 pF			
<b>Start-up Time</b>				2	mS
<b>Phase Noise</b>	@ 10 Hz Offset		-93		dBc/Hz
	@ 100 Hz Offset		-118		dBc/Hz
	@ 1 KHz Offset		-140		dBc/Hz
	@ 10 KHz Offset		-155		dBc/Hz
	@ 100 KHz Offset		-158		dBc/Hz
<b>Operating Temperature</b>	* N Option	-40		+85	°C
<b>Storage Temperature</b>		-40		+85	°C

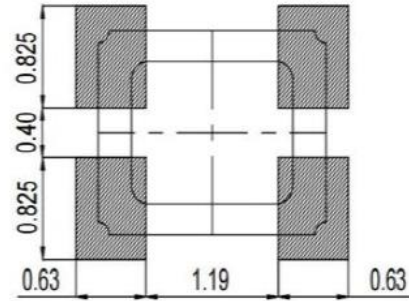
### Part Numbering Guide: Example ECS-TXO-20CSMV4-260-AN-TR

ECS	Series	Frequency Abbreviations	Stability	Temperature	Packaging
ECS	TXO-20CSMV4 = Clipped Sine Wave TCXO Analog Compensation, 4 pad	260 = 26.000 MHz	A= ±0.5 ppm B= ±1.0 ppm C= ±1.5 ppm D= ±2.0 ppm E= ±2.5 ppm	L= -10 ~ +70°C M= -20 ~ +70°C Y= -30 ~ +85°C N= -40 ~ +85°C	TR = 1K/Reel TR3= 3K/Reel

**Package Dimensions (mm)**



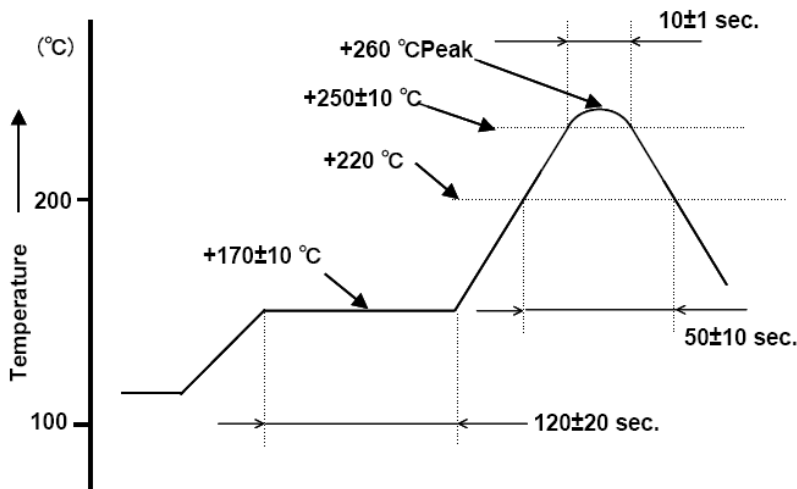
*Figure 1) Top, Side, and Bottom views*



*Figure 2) Land Pattern*

Pin Connections	
#1	Ground
#2	Ground
#3	Output
#4	VDD

Developed Frequencies	
* Abbreviation	Frequency (MHz)
192	19.200
250	25.000
260	26.000
300	30.000
320	32.000
384	38.400
390	39.000
500	50.000
520	52.000



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