

CSMT1 SERIES

- Ultra-Miniature SMD Tuning Fork Crystal
- Wide Temperature Range
- Tight Tolerance and Stability
- Tape and Reel Packaging



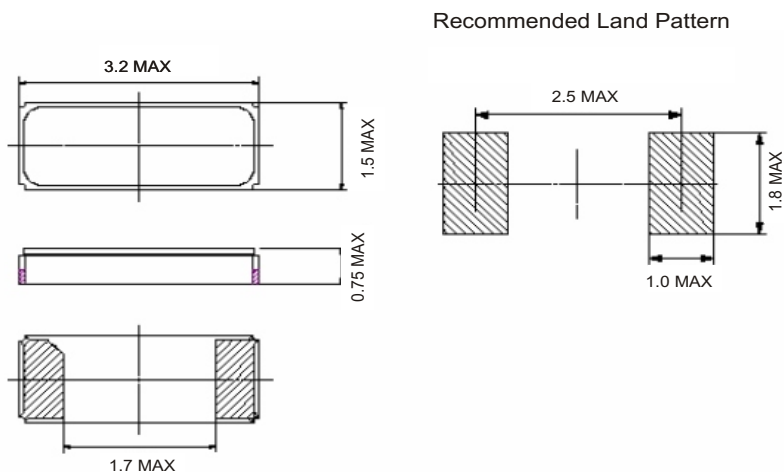
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FREQUENCY DEVICES

Electrical Specifications

Frequency Range:	32.768KHz
Frequency Tolerance/Stability:	$\pm 20\text{ppm} / -.034(\pm .006)\text{ppm}/^{\circ}\text{C}^2(\text{T}-\text{T}_0)^2$
Turnover Temperature (To):	25°C \pm 5°C
Operating Temperature Range:	-40°C to +85°C
Storage Temperature Range:	-55°C to +125°C
Aging:	$\pm 3\text{ppm} / \text{first year Maximum}$
Shunt Capacitance:	1.35pF Maximum
Load Capacitance:	12.5pF or 9pF
Equivalent Series Resistance:	70k Ohms Maximum
Drive Level:	1 μ Watts Maximum
Motional Capacitance:	3.0fF Typical
Capacitance Ratio:	450 Typical
Insulation Resistance::	500M ohms minimum / DC 100V \pm 15V
Soldering Temp:	Maximum -260°C / 10 Sec
Termination Finish	Ni/Au

Mechanical Dimensions



ALL DIMENSIONS
IN MILLIMETERS

Part Numbering Guide

CSMT1 12 - 32.768K TR

Series

SMD 1.5mm x 3.20mm Watch Crystal

Load Capacitance

09 = 9pF
12 = 12.5pF

Packaging

Blank = Bulk
TR = Tape and Reel

Frequency

K = Khz