

# WCSMC Series Crystal

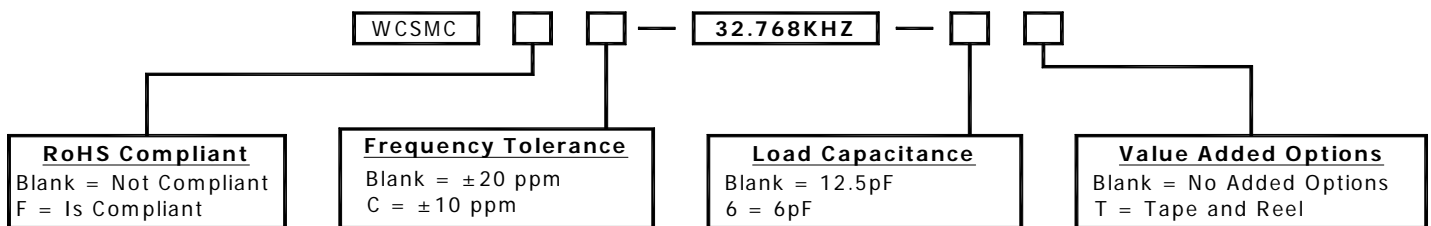


- 4 Pad Plastic SMD Package
- Tuning Fork Crystal
- Tight Tolerance and Stability
- Tape and Reel Packaging



Frequency	32.768kHz
Frequency Tolerance	See Part Number Guide Below
Turnover Temperature (To)	25°C ±5°C
Frequency Stability	-0.034(±0.006)ppm/°C <sup>2</sup> (T-To) <sup>2</sup>
Operating Temperature Range	-40°C to +85°C
Storage Temperature	-55°C to +125°C
Shunt Capacitance	1.35pF Typ
Motional Capacitance	3.0fF Typ
Equivalent Series Resistance (ESR)	50K Ohms
Load Capacitance	12.5pF or 6pF
Drive Level	1µW max
Capacitance Ratio (CO/C1)	450 Typ
Aging	±3ppm / 1 <sup>st</sup> Yr Max
Insulation Resistance	500 Mega ohms Min at 100VDC ±15VDC
Hermeticity of Seal	1 x 10 <sup>-2</sup> mPa (m <sup>3</sup> /s) Max
Shock Resistance	±5ppm max (drop test onto a hard wooden board from 75cm)
Moisture Sensitivity Level	3

## Part Number Guide



Please consult with MMD sales department for any other parameters or options.

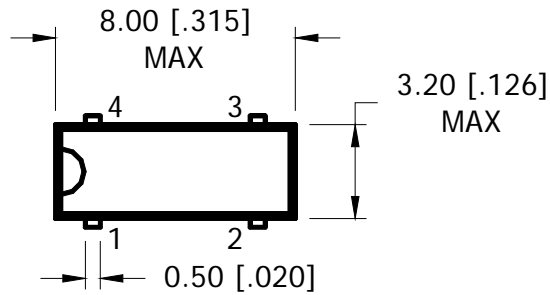


**MMD Monitor/Quartztek**  
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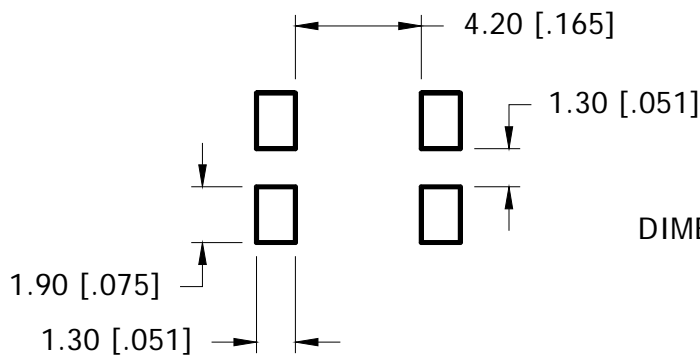
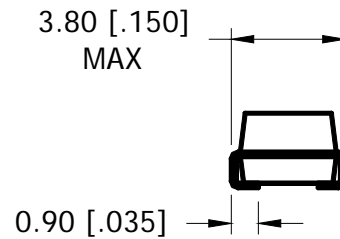
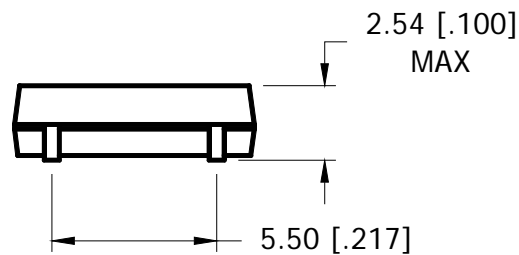
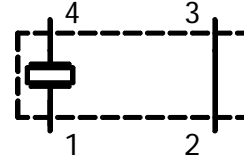


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# Mechanical Details



INTERNAL CONNECTION



DIMENSION IN BRACKETS  
ARE IN INCHES

SUGGESTED  
LAND PATTERN



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