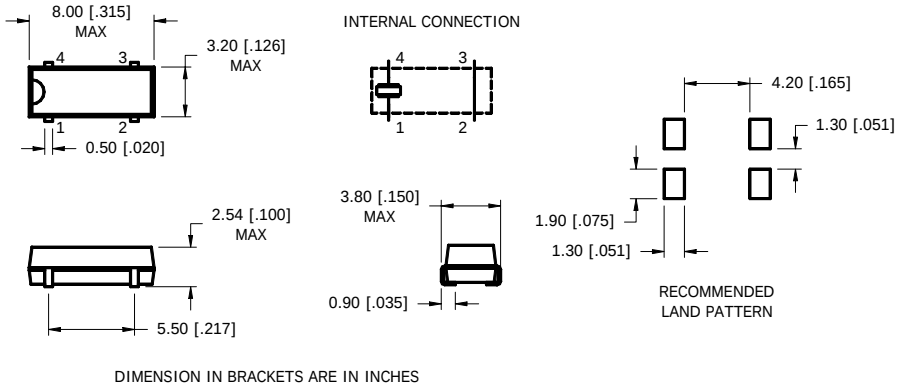
WCSMC Series Crystal

- **4 Pad Ceramic SMD Package**
- **Wide Frequency Range**
- **Tuning Fork Crystal**
- **Tight Tolerance and Stability**
- **Tape and Reel Packaging**

ELECTRICAL SPECIFICATIONS:

Frequency	32.768kHz
Frequency Tolerance	±20ppm
Turnover Temperature (To)	25°C ±5°C
Frequency Stability	$-0.034(\pm0.006)ppm/°C^2(T-To)^2$
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 Radio (CO/C1)	450 Typ
Aging	±3ppm / 1st Yr Max
Insulation Resistance	500 Mega ohms Min at 100VDC ±15VDC
Hermeticity of Seal	1×10^{-2} mPa (m^3/s) Max
Shock Resistance	±5ppm max (drop test onto a hard wooden board from 75cm)

MECHANICALS DETAIL:



DIMENSION IN BRACKETS ARE IN INCHES

PART NUMBER GUIDE:

WCSMC ☐ — **32.768KHZ** — ☐ ☐

RoHS Compliant	Load Capacitance	Packaging
Blank = Not Compliant	Blank = 12.5pF	Blank = No Added Options
F = Is Compliant	6 = 6pF	T = Tape and Reel

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

MMD Components, 30400 Esperanza, Rancho Santa Margarita, CA, 92688
Phone: (949) 709-5075, Fax: (949) 709-3536, www.mmdcomp.com
Sales@mmdcomp.com