

SMD Tuning Fork Crystal

MCM380 Series

MEC Crystals

SMD Ultra Miniature Type (7.0 x 1.5 x 1.4mm)

(32.768 KHz)

Features:

- Small Size
- 1.4mm Height Max.
- Tape & Reel (3000 pcs/reel)
- Frequency: 32.768 KHz
- **RoHs Compliant (Pb Free)**
- **Soldering Temp. Profile 260°C**

Applications:

- Microprocessor systems
- Consumer electronics



Electrical Specifications:

Series	MCM380-327	
Item	Symbol	Specifications
Frequency	fo	32.768 KHz
Frequency Tolerance	$\Delta f/f_0$ (25°C)	±20ppm
Load Capacitance	CL	12.5 pF Typical or specify
Parabolic Coefficient	beta	-0.034ppm ± 0.006 / (Δ°C) ² Typical
Operating Temperature	T	-40°C ~ +85°C
Storage Temperature	Tstg	-55°C ~ +125°C
Turnover	TO	25°C ± 5°C
Equivalent Series Resistance	R1 (25°C ref.)	65 Kohm max
Max Insulation Resistance	IR	500 Mohm Min. (DC 100V)
Dynamic Capacitance	C1	1.9 pF Typical
Shunt Capacity	Co	0.8 pF Typical
Q-Factor	Q	60K Typical
Drive Level	DL	1.0 μ W Max.
Aging	fa	±3ppm / year Max.

Part Numbering System:

MCM380-327 - _____

①

②

① Series

MCM380-327

② Load Capacitance

Code	Load Capacitance
Nil	12.5 pF
7	7 pF
or specify	

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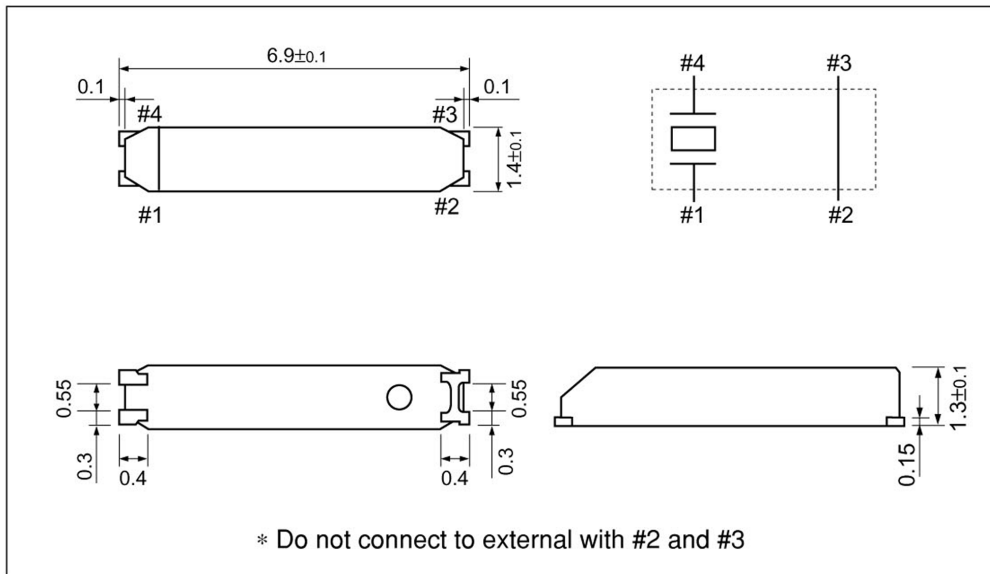
MCM380 Series



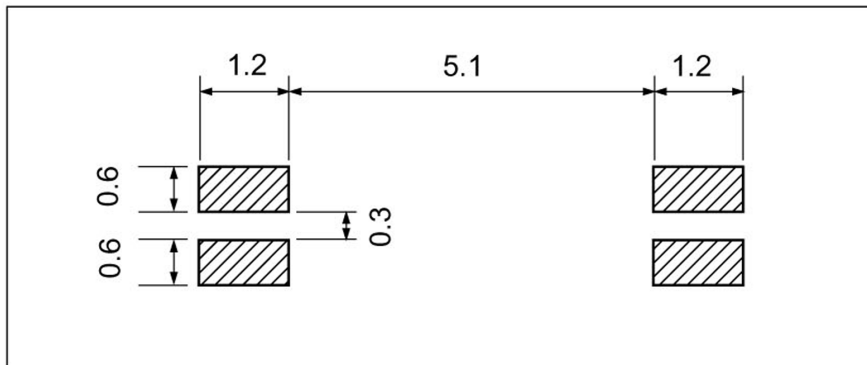
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(32.768 KHz)

Dimensions:



Recommended Patterning:



Remark: Specifications are subject to change without prior notice. Please confirm with our sales engineer.