MCM500S Series

MEC Crystals

SMD Ultra Miniature Type

(30 - 200 KHz)

Features:

- High stability
- Low profile, plastic SM package
- Tape & Reel (3000 pcs/reel)
- Frequency: 30 200 KHz
- RoHs Compliant (Pb Free)

Applications:

- Microprocessor systems
- Consumer electronics



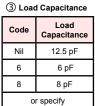
Electrical Specifications:

Series	MCM500S	
Item	Symbol	Specifications
Frequency	fo	30 - 200 KHz
Frequency Tolerance	delta f/f ₀ (25°C)	±20ppm
Turnover	ТО	25 ± 5°C
Frequency Temp. Coefficient	beta	-0.034 ± 0.006ppm / °C2
Operating Temperature	Т	-40°C ~ +85°C
Storage Temperature	Tstg	-55°C ~ +125°C
Equivalent Series Resistance	R1 (25°C ref.)	50 Kohm max
Max Insulation Resistance	IR	500 Mohm Min. (DC 100V ± 15V)
Load Capacitance	CL	12.5 pF Typical or specify
Motional Capacitance	C1	4.0 fF Max.
Shunt Capacity	Со	2.0 pF Max. (1.5 pF Typical)
Capacitance Ratio	gamma	500 Typical
Drive Level	DL	1.0 μ W Max.
Aging	fa	±3ppm / year (25°C ± 3°C)
Shock Resistance	±5ppm Max. Drop test of 3 times on a hard board from 75cm height or shock test of 3000G x 0.3ms x 1/2sin wave x 3 directions.	

Part Numbering System:







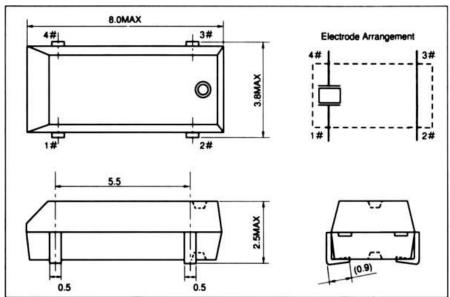
Remark: Specifications are subject to change without prior notice. Please confirm with our sales engineer.

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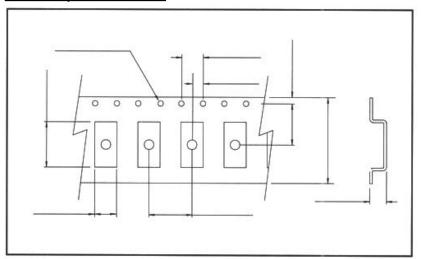
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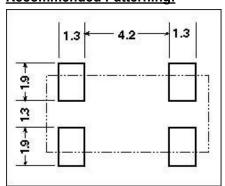
Dimensions:



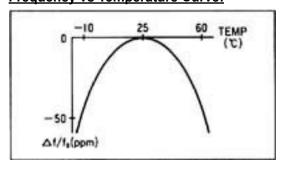
Carrier Tape Dimensions:



Recommended Patterning:



Frequency vs Temperature Curve:



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