SMD Tuning Fork Crystal

MCM450S-327

MEC Crystals

SMD Ultra Miniature Type

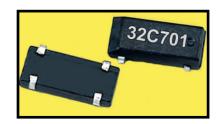
(32.768 KHz, 12.5pF)

Features:

- High stability
- Low profile, plastic SM package
- Tape & Reel (3000 pcs/reel)
- Frequency: 32.768 KHz
- Load Capacitance 12.5pF
- RoHs Compliant (Pb Free)
- Soldering Temp. Profile 260°C

Applications:

- Microprocessor systems
- Consumer electronics



Electrical Specifications:

Series		MCM450S10-327	MCM450S-327
Item	Symbol	Specifications	
Frequency	fo	32.768 KHz	
Frequency Tolerance	delta f/f ₀ (25°C)	±10ppm	±20ppm
Turnover	TO	25 ± 5°C	
Frequency Temp. Coefficient	beta	-0.034 ± 0.006ppm / °C2	
Quality Factor	Q	100000 Typical	
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	
Motional Capacitance	C1	0.0024 pF Typical	0.003 pF Typical
Shunt Capacity	Co	1.3 pF Typical	1.35 pF Typical
Capacitance Ratio	gamma	450 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.		

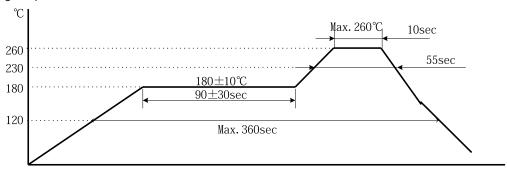
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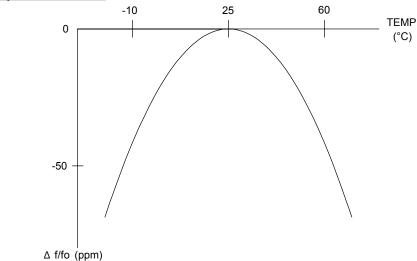
(32.768 KHz, 12.5pF)

Soldering Profile:

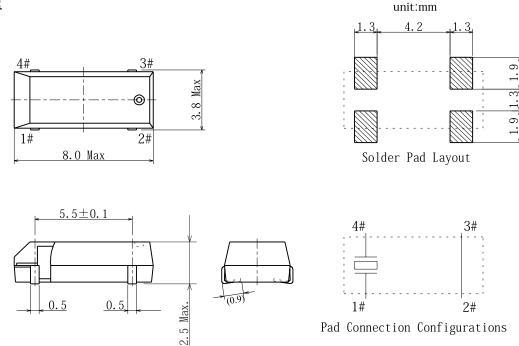
The soldering temperature is 260±5°C for 10 sec max.



Frequency vs Temperature Curve:



Dimensions:



SMD Ultra Miniature Type

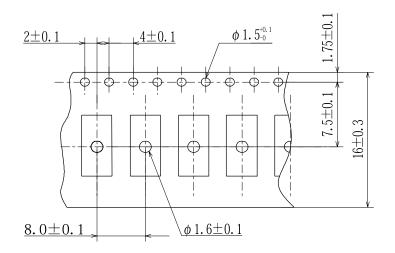
(32.768 KHz, 12.5pF)

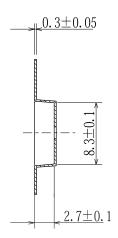


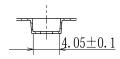
Packaging:

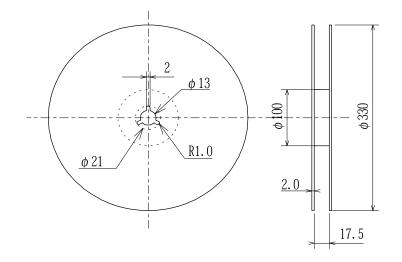
3000 pieces / Reel (13" Reel)

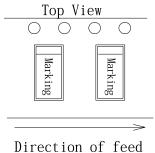
Precautions are taken to prevent damage due to transportation and handling.











Conforming to EIAJ RC1009B

Component Marking:

32Cyww

32C or 32S: Manufacturer's location ID Code

y: The last digit of production year.

ww: Week Code

Label Marking:

Identified with RoHS 260°C