HCM49 (1,000pcs/reel)



FEATURES:

- The HCM49 is a high-performance miniature crystal units manufactured with Citizen's ultrhigh-precision processing technology.
- Excellent vibration resistance, shock resistance and environmental characteristics.
- Can be mounted automatically because of the emboss taping used.

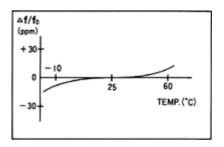
■ APPLICATIONS:

• Can be used for a wide range of applications including use in AV equipment, OA equipment, communication equipment and measuring instruments.

■ STANDARD SPECIFICATIONS

Item		HCM49	Conditions
Nominal frequency	fo	3.5MHz to 30MHz (Fund) 30MHz to 70MHz (3rd OT)	Please contact for change in frequency.
Frequency tolerance	delta f/fo	± 30ppm or ± 50ppm	(25°C) Reference temperature
Frequency vs. Temperature Characteristics	delta f/fo	30ppm or 50ppm	-10°C to +60°C
Operating temperature range	Topr	-40°C to +85°C	
Storage temperature range	Tstg	-55°C to +125°C	Store by one unit
Equivalent series resistance	Rı	see drawing	at 25°C
Load capacitance	Cl	16pF TYP.	Please specify
Shunt capacitance	C ₀	7.0pF MAX.	
Drive level	DL	50 to 100 μ W	
Insulation resistane	IR	500M ohm MIN.	DC100V ± 15V
Aging (First year)	delta f/fo	± 5ppm MAX.	25°C ± 3°C
Sealing		1 x 10-2 μ Pa·m3 /s MAX.	
Shock resistance	± 10ppm 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		Conditions will vary depending on the frequency

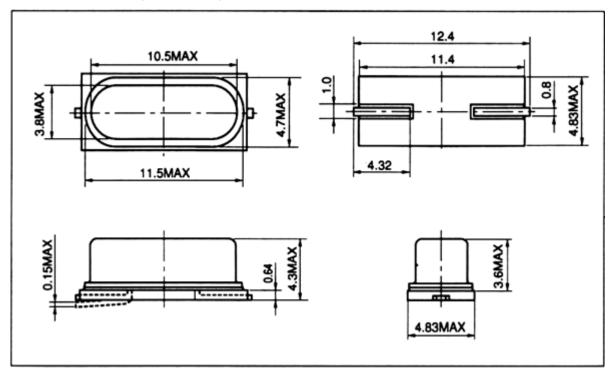
■ FREQUENCY vs TEMPERATURE CURVE



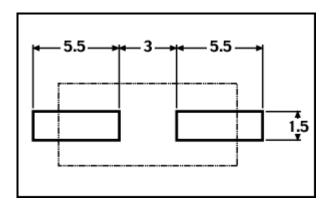
■ EQUIVALENT SERIES RESISTANCE (ESR, R1)(Ohm MAX.)

Frequency	R1
3.5MHz <(=) f0 < 4.0MHz	200
4.0 MHz < (=) fo < 6.0 MHz	150
6.0MHz <(=) fo < 10.0MHz	100
10.0MHz <(=) f0 < 14.0MHz	80
14.0MHz < fo <(=) 30.0MHz	50
30.0MHz < fo <(=) 36.0MHz	140
36.0MHz < fo <(=) 70.0MHz	100

■ DIMENSIONS: (UNIT=mm)



■ RECOMENDED SOLDERING PATTERN: (UNIT=mm)



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