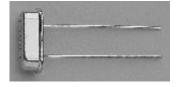
HC-49/U-S



(2,000pcs/AmmoPack reel)

FEATURES:

- The HC-49/U-S is a high-performance miniature crystal unit manufactured with Citizen's ultrahigh-precision processing technology.
- Excellent vibration resistance, shock resistance and environmental characteristics.
- Can be automatically mounted, as units provided with taping are available by request.

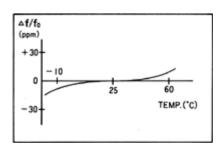
APPLICATIONS:

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

STANDARD SPECIFICATIONS

Item		HC-49/U-S	Conditions
Nominal frequence	fo	3.5MHz to 30MHz (Fund) 30.0MHz to 70.0MHz (3rd OT)	Please contact us for changes in frequency.
Frequency tolerance	delta f/fo	\pm 30ppm or \pm 50ppm	(25°C) Reference temperature
Frequency vs.Temperature Characteristics	delta f/fo	\pm 30ppm or \pm 50ppm	-10° C to $+60^{\circ}$ C
Operating temperature range	Topr	-20°C to +70°C	
Storage temperature range	Tstg	-40° C to $+85^{\circ}$ C	
Equivalent series resistance	R 1	See drawing	at 25°C
Load capacitance	Cl	16.0pF TYP.	Please specify
Shunt capacitance	C ₀	7.0pF MAX.	
Drive level	DL	50 to100µW	
Insulation resistance	IR	500M ohm MIN.	$DC100V \pm 15V$
Aging (First year)	delta f/fo	± 5ppm MAX.	$25^{\circ}C \pm 3^{\circ}C$
Sealing		1 x 10-2 μ Pa·m3 /s MAX.	
Shock resistance	± 10ppm MAX. Drop test of 3 times on a hardboard 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.

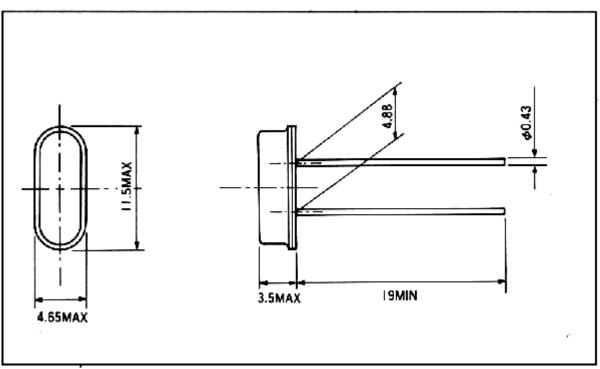
■ FREQUENCY vs TEMPERATURE CURVE

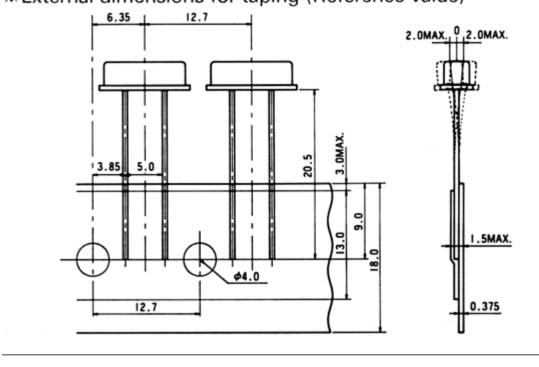


■ EQUIVALENT SERIES RESISTANCE (ESR, R1)(Ohm MAX.)

Frequency	R1
3.5MHz <(=) fo < 4.0MHz	200
4.0MHz <(=) fo < 6.0MHz	150
6.0MHz <(=) f0 < 10.0MHz	100
10.0MHz <(=) fo < 14.0MHz	80
14.0MHz <(=) f0 <(=) 30.0MHz	50
30MHz < f0 <(=) 36.0MHz	140
36MHz < f0 <(=) 70.0MHz	100

■ DIMENSIONS: (UNIT=mm)





*External dimensions for taping (Reference value)

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