

SPECIFICATION P/N: HC49SM-xxxxx MHz-20pF

xxxxx MHz - frequency, MHz; e.g. 8.000 MHz, 12.000 MHz



Quartz Crystal

Resistance Welded HC-49/S Surface Mount Package

FEATURE

- I Height 4.0mm, or 3.0mm, compact unit for surface mount
- I Able to by means of a metal case and completely sealed high solution characteristics
- I Copes with high density mounting and is the optimum for mass production
- I Rohs Compliant and lead free products

ELECTRICAL SPECIFICATIONS

Nominal frequency	1MHz - 100.000MHz
Oscillation mode	Fundamental
Operating temperature range	-40℃+85℃
Storage temperature range	-40℃+85℃
Frequency tolerance	± 20 ppm at 25 ± 2 °C
Freq. Temp characteristics	\pm 30ppm over -40 $^\circ\!\!\mathrm{C}$ +85 $^\circ\!\!\mathrm{C}$
Load capacitance	20pF
Equivalent series resistance	50 Ω max
Parallel capacitance(Co)	7PF Max
Drive level	100 μW
Insulation resistance	More than 500M Ω AT DC100V

Mechanical characteristics

Resistance to shock:	± 3 ppm Max $\pm 3\Omega$ Max, Naturally drop it 3 times on a hard wood plate from 100cm height
Resistance to vibration:	± 3 ppm Max $\pm 3\Omega$ Max

Reliability

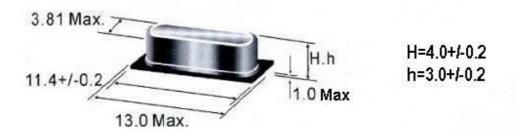
Aging	±3ppm Max/Year	
Air tightness		
(1) Gross leak	should be immerged in hot water(90±5°C) for 5	
	minutes	
(2) Fine leak	should be less than 5×10^{-8} atmcc/sec by helium leak	
	detector	
Low drive characteristics	Measured Δ 1,C1,3 point at 1.0,,10,100μW	

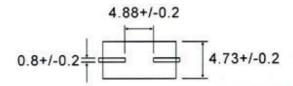


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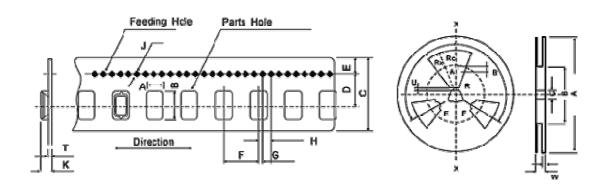
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Dimension (unit: mm)





Tape & Reel



See Tables / Reel Dimension

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Description			Code	Dimenstions		
	Diameter		Α	φ330+/-2.0		
Florace	Thickness		t	2.4+/-0.2		
Flanges	WidthbetweenFlanges		W	+2.0 24.4-0		
	OutlineDiameter		В	φ100+/-2.0		
	CenterCoreslit	Width	F	2.3+/-1.0		
		Depth	V	6.0+/-1.0		
Elangos		Position	Q	120°+/-3.0°		
Flanges	SpindleDiameter		С	φ13.0+/-0.5		
	KeySeats	Width	Е	2.5		
		Depth	U	5.0+/-0.5		
		Position	Q	120°+/-3°		
Fenestrate	e OutlineRadius		Ro	R90+/-1.0		

The design, manufacturing process, and specifications of this device are subject to change without notice. Page 3 of 4

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InlineRadius	Ri	R40+/-1.0
RoundedComers	Rc	+2.0 R5-0
OpenAngle	R	40°+/-2°

Code	Dimension	Code	Dimension	Code	Dimension
Α	5.0+/-0.1	Е	1.75+/-0.1	J	φ1.5(+0.1,-0)
В	15.0+/-0.2	F	8.0+/-0.1 / 12.0+/-0.1	K	5.0+/-0.1
С	24.0+/-0.3	G	2.0+/-0.1	Т	0.5+/-0.1
D	11.05+/-0.1	Н	4.0+/-0.1		

Notice: These parts do not contain any hazardous substances as specified in the RoHS (The Restriction of Hazardous Substances) With SGS LEAD FREE report