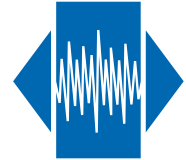


# HC-49U MJ

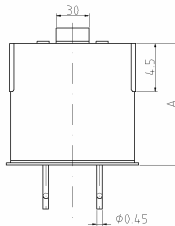
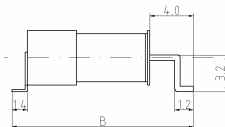
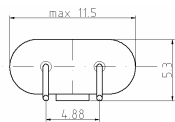


## SMD Crystal

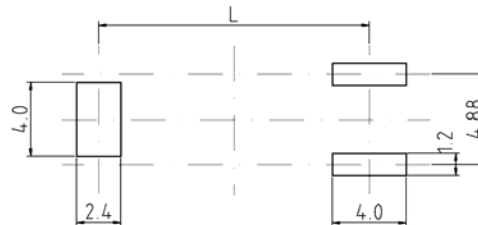
### Features

- Applications: telecommunications, audio, automotive, instruments
- Reliable hermetic sealed package
- Wide frequency range
- Available as Through Hole or SMD in T&R (1'000 pcs)

Parameter	Specification	
Frequency range	1 ~ 30 MHz 23 ~ 70 MHz 50 ~ 130 MHz 100 ~ 225 MHz	fundamental 3 <sup>rd</sup> OT 5 <sup>th</sup> OT 7 <sup>th</sup> OT
Mode of vibration	AT cut, 3 <sup>rd</sup> , 5 <sup>th</sup> , & 7 <sup>th</sup> OT	
Standard frequency	2.0480; 3.579545; 9.0316; 10.2400; 12.000 MHz	
Frequency tolerance	±5 ~ ± 50 ppm	@ +25 °C
Frequency stability	±5 ~ ± 50 ppm	vs. operating temperature range
Aging	±1 ~ ±3 ppm	1 <sup>st</sup> year
Load capacitance	series or parallel resonance (CL = 8 ~ 32 pF)	
Drive level	0.1 ~ 0.5 μW	
Operating temperature range	-10 ~ +60 °C -40 ~ +85 °C	commercial application industrial application
Storage temperature range	-55 ~ +125 °C	
Packaging unit	tape & reel	500 or 1'000 pieces
Customer specifications on request		

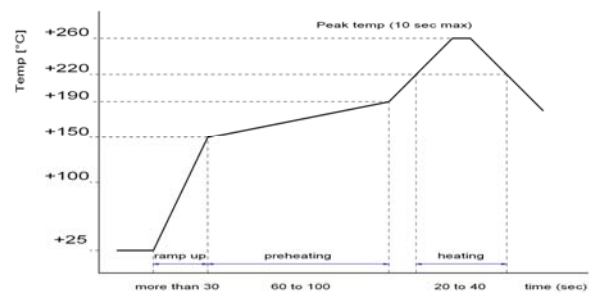


### Example for soldering pattern



**Do not design any conductive path between the pattern**

### Example for IR reflow soldering temperature



Type	A	B	L
HC-49U MJ	13.2	18.6	17.3

[mm]



2002/95/EC RoHS compliant

03 May. 10

