

# Quartz Crystal

Resistance Welded HC-49/S SMD 4 PADS



Approved by:

Checked by:

Issued by:

## SPECIFICATION

P/N: 6C4100000001MBL

**深圳市晶科鑫实业有限公司**  
**SHENZHEN CRYSTAL TECHNOLOGY INDUSTRIAL CO., LTD.**

Tel: 86-755-88352809  
E-mail: [sjksale@126.com](mailto:sjksale@126.com)

Fax: 86-755-88353718  
URL: [Http://www.q-crystal.com](http://www.q-crystal.com)

# Quartz Crystal

Resistance Welded HC-49/S SMD 4 PADS



## FEATURE

- Height 5.0mm, or 4.5mm, compact unit for surface mount
- Able to by means of a metal case and completely sealed high solution characteristics
- Copes with high density mounting and is the optimum for mass production

## ELECTRICAL SPECIFICATIONS

|                              |                            |
|------------------------------|----------------------------|
| Nominal frequency            | 10.000MHz                  |
| Oscillation mode             | Fundamental/AT             |
| Operating temperature range  | -20°C--+70°C               |
| Storage temperature range    | -40°C--+85°C               |
| Frequency tolerance          | ±30PPM                     |
| Freq. Temp characteristics   | ±50PPM                     |
| Load capacitance             | 20pF                       |
| Equivalent series resistance | 60 Ω                       |
| Parallel capacitance (Co)    | 7PF Max                    |
| Drive level                  | 100 μW                     |
| Insulation resistance        | More than 500M Ω AT DC100V |

## Mechanical characteristics

|                          |                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------|
| Resistance to shock:     | ±3PPM Max ±3 Ω Max, Naturally drop it 3 times on a hard wood plate from 100cm height |
| Resistance to vibration: | ±3PPM Max ±3 Ω Max                                                                   |

## Reliability

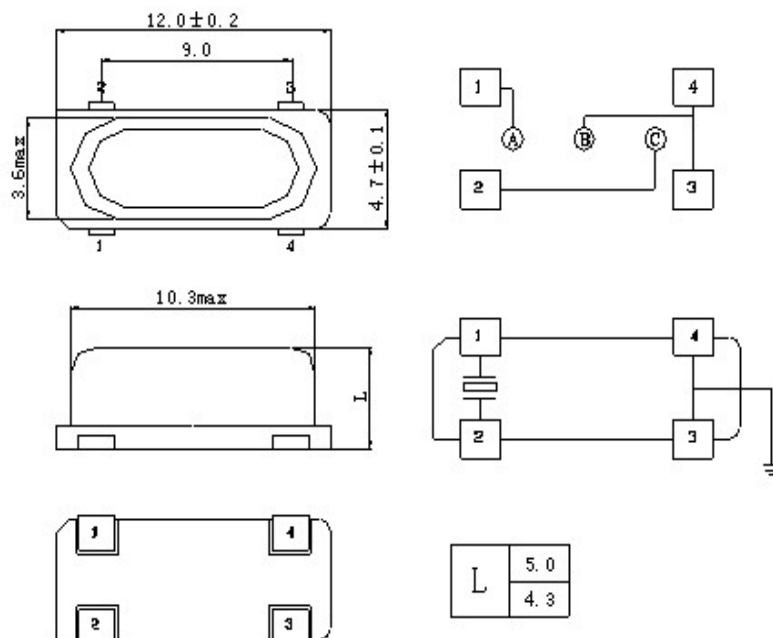
|                           |                                                                            |
|---------------------------|----------------------------------------------------------------------------|
| Aging                     | ±5PPM Max/Year                                          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

# Quartz Crystal

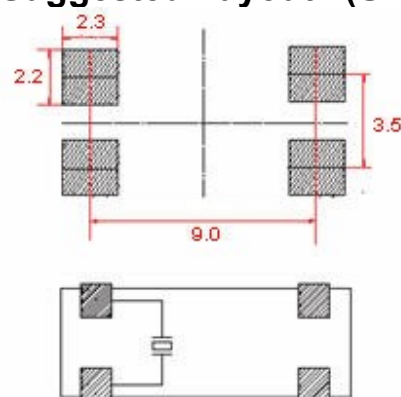
Resistance Welded HC-49/S SMD 4 PADS



## Dimension (UNIT:MM)



## Suggested Layout (UNIT:MM)



UNIT MM

## TAPING AND REEL DIMENSIONS

