

## Mikronauts 6.250MHz Resistance welded Quartz Crystal in HC-49/S Package

### Electrical Specifications

Frequency	6.250MHz
Operating Temperature Range	-20°C to +70°C
Storage Temperature Range	-40°C to +85°C
Frequency tolerance	+30PPM at 25°C±2°C
Frequency Temperature Characteristics	+50PPM at -20°C to +70°C
Load capacitance	Series, 20pF
Equivalent Series Resistance	60 Ohms Max
Drive Level	100uW
Insulation	Greater than 500M Ohms at 100VDC

### Mechanical Characteristics

Shock Resistance	+3PPM Max ± 30hm Max, 1m drop
Vibration Resistance	+3PPM Max ± 30hm Max

### Reliability

Aging	3PPM maximum per year
Air Tightness - Gross Leak	Immersed in 95°C water for five minutes
Air Tightness - Fine Leak	< than $5 \times 10^{-8}$ atmcc/sec by helium leak detector
Low drive characteristics	Measured Delta 1,C1,3 points at 1.0,10,100 uW

### Dimensions

Height	3.5mm ± 0.2mm
Width	10.5mm inside / 11.0mm lip ± 0.2mm
Depth	3.6mm inside / 4.6mm outside lip ± 0.2mm
Legs	13.2mm x 0.5mm
Leg spacing	4.9mm ± 0.2mm

Contact: [mikronauts@gmail.com](mailto:mikronauts@gmail.com)

Availability: immediate for small quantities, 15-30 days lead time for large quantities