

# QUARTZ CRYSTAL UNIT

## SERIES SMU4 RESISTANCE WELDED HC-49/US SURFACE MOUNT PACKAGE.

### FEATURE

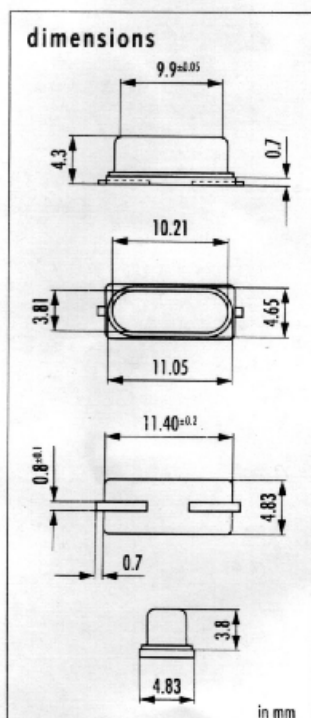
- Compact crystal unit for surface mount.
- Able to cope by means of metal case and completely sealed high resolution characteristics.
- Copes with high density mounting and is optimum for mass production.



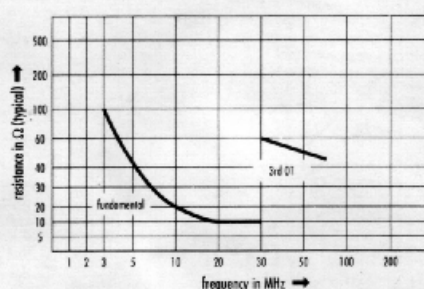
### ELECTRICAL SPECIFICATIONS

MODE	SMU 4
Frequency Range	3.759545MHz-24MHz
Frequency Tolerance (at 25°C)	± 50ppm (Standard), or specify
Frequency Stability Over Operating Temperature Range	± 100ppm (Standard), or specify
Operating Temperature Range	-10°C to +60°C
Aging (at 25°C)	± 5ppm/year Maximum
Storage Temperature Range	-40°C to +85°C
Shunt Capacitance	7pF Maximum
Insulation Resistance	500 Megaohms Minimum at 100VDC
Drive Level	100 $\mu$ Watts Minimum
Load Capacitance	Series, 12pF, 16pF, 20pF, or specify

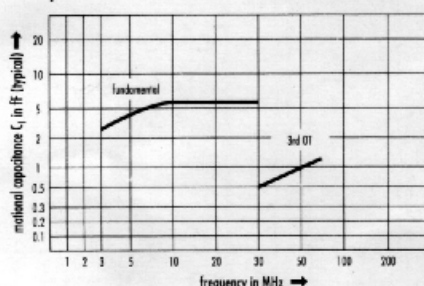
### DIMENSIONS AND ELECTRICAL CHARACTERISTICS



series resistance table



motional capacitance table



REMARK: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE. PLEASE CONFIRM WITH OUR SALES ENGINEER.

# QUARTZ CRYSTAL UNIT

## ORDERING INFORMATION

Please specify the following items when placing orders.

### ■ GENERAL SPECIFICATIONS

Crystal Model	<input type="checkbox"/> SMU4 SMD HC 49/US
Nominal Frequency	_____ MHz
Oscillation Temperature Range	<input type="checkbox"/> Fundamental <input type="checkbox"/> 3rd <input type="checkbox"/> 5th <input type="checkbox"/> 7th
Frequency Tolerance (25°C)	<input type="checkbox"/> ± 50ppm <input type="checkbox"/> _____ ppm
Operating Temperature Range	<input type="checkbox"/> - 10 ~ + 60°C <input type="checkbox"/> - 20 ~ + 70°C <input type="checkbox"/> _____
Frequency Stability Over Operating Temp. Range	<input type="checkbox"/> ± 100ppm <input type="checkbox"/> _____ ppm
Load Capacitance	<input type="checkbox"/> Series <input type="checkbox"/> 12pF <input type="checkbox"/> 16pF <input type="checkbox"/> 20pF <input type="checkbox"/> _____ pF
Equivalent Series resistance (ESR)	_____ Ω Max.
Drive Level	<input type="checkbox"/> 100 μ W <input type="checkbox"/> _____ μ W
Shunt Capacitance (C0)	<input type="checkbox"/> 7pF Max. <input type="checkbox"/> _____
Aging	<input type="checkbox"/> 5ppm/year <input type="checkbox"/> _____
Spurious Response	<input type="checkbox"/> Not specify <input type="checkbox"/> _____
Test Equipment	<input type="checkbox"/> Saunders 250A <input type="checkbox"/> _____
Marking	<input type="checkbox"/> MSC Standard <input type="checkbox"/> _____
Application	