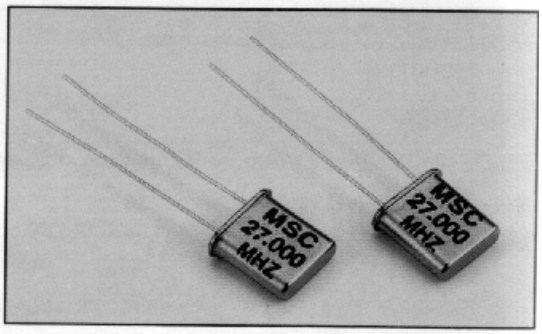
QUARTZ CRYSTAL UNIT

SERIES HC-49/U PACKAGE

■ FEATURE

- Small height of the X'tal units, improved space reduction on the PCB.
- A Resistance weld completely sealed type.
- The frequency stability is good, The reliability is high.
- Copes with high density mounting and is the optimum for mass production.



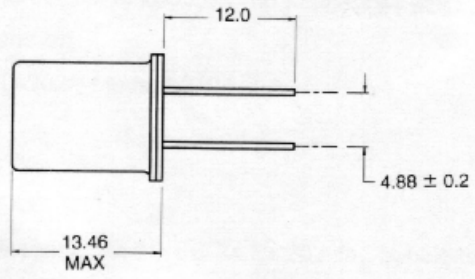
■ ELECTRICAL SPECIFICATIONS

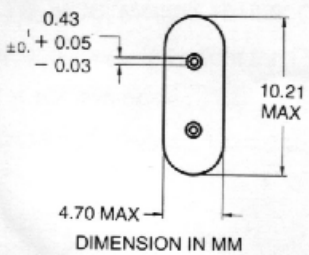
Frequency Range	1.8432MHz to 200.000MHz
Frequency Tolerance (at 25°C)	± 50ppm (Standard), ± 10 ~ ± 30ppm AVA, LABLE
Frequency Stability Over Operating Temperature Range	± 50ppm (Standard), Lower ppm available
Operating Temperature Range	-20°C to +70°C (Standard), -10°C to +60°C, -40°C to +85°C, or specify
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 100V_{DC}
Drive Level	100 μ Watts Minimum
Load Capacitance	Series, 16pF, 20pF, 30pF, 32pF, or specify

■ EQUIVALENT SERIES RESISTANCE (ESR) AND MODE OF OPERATION (MODE)

Frequency Range	E.S.R (Ω)	Mode	Frequency Range	E.S.R (Ω)	Mode
1.843MHz~1.999MHz	700 Max.	Fundamental/AT	6.000MHz~6.999MHz	50 Max.	Fundamental/AT
2.000MHz~2.399MHz	500 Max.	Fundamental/AT	7.000MHz~9.999MHz	40 Max.	Fundamental/AT
2.400MHz~2.999MHz	300 Max.	Fundamental/AT	10.000MHz~12.999MHz	30 Max.	Fundamental/AT
3.000MHz~3.199MHz	250 Max.	Fundamental/AT	13.000MHz~30.000MHz	20 Max.	Fundamental/AT
3.200MHz~3.499MHz	200 Max.	Fundamental/AT	24.000MHz~29.999MHz	50 Max.	Third Overtone
3.500MHz~3.899MHz	150 Max.	Fundamental/AT	30.000MHz~65.000MHz	40 Max.	Third Overtone
3.900MHz~4.099MHz	100 Max.	Fundamental/AT	60.000MHz~150.000MHz	60 Max.	Fifth Overtone
4.100MHz~5.999MHz	80 Max.	Fundamental/AT			

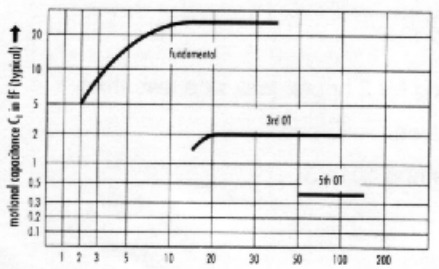
■ MARKING AND DIMENSIONS



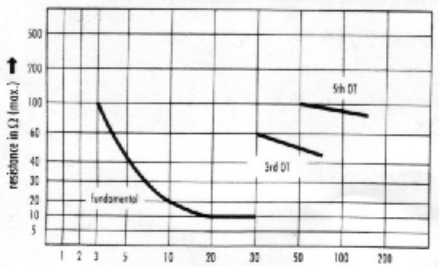


DIMENSION IN MM

motional capacitance table



series resistance table



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

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ORDERING INFORMATION

Please specify the following items when placing orders.

■ GENERAL SPECIFICATIONS

Crystal Model	6A HC-49U
Nominal Frequency	_____MHz
Oscillation Mode	☐ Fundamental ☐ 3rd ☐ 5th ☐ 7th
Frequency Tolerance (25°C)	☐ ± 30ppm ☐_____ppm
Operating Temperature Range	☐ -10 ~ +60°C ☐ -20 ~ +70°C ☐ -40 ~ +85°C ☐_____
Frequency Stability Over Operating Temp. Range	☐ ± 30ppm ☐_____ppm
Load Capacitance	☐ Series ☐ 16pF ☐ 20pF ☐ 30pF ☐ 32pF ☐_____pF
Equivalent Series Resistance (ESR)	_____Ω Max.
Drive Level	☐ 100 μ W ☐_____μ W
Shunt Capacitance (C0)	☐ 7pF Max. ☐_____
Aging	☐ 5ppm/year ☐_____
Spurious Response	☐ Not Specified ☐_____
Test Equipment	☐ Saunders 250A ☐_____
Marking	☐ MSC Standard ☐_____
Application	