



HC-49U

Resistance Weld Crystal

Applications:

- Notebook PC
- Portable PC

FEATURES

- Metal Welded Package
- Excellent Frequency Aging Stability
- High Shock Resistance
- High Heat Resistance
- RoHS Compliant

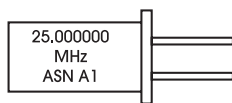
SPECIFICATION

MODEL		AS49U
Frequency		
Frequency Range (Fundamental)	MHz	1.000 ~ 36.000
Frequency Range (3rd overtone)		24.000 ~ 100.000
Frequency Tolerance (25°C)	ppm	± 10 ~ ± 50
Frequency Stability (Ref to 25°C)	ppm	± 10 ~ ± 50
Environmental Condition		
Operating Temperature Range	°C	-10 to +70
Storage Temperature Range	°C	-40 to +85
Aging	ppm/Year	± 5 Max.
Electrical Specifications		
Test Circuit		S&A 350A with π Fixture
Load Capacitance (CL)	pF	10pF ~ Series (Customer Specified)
Drive Level	uW	0.1uW Min.
Equivalent Series Resistance	Ω	see table
Insulation Resistance		More than 500M Ω at DC 100V
Shunt Capacitance (Co)	pF	7.0 (Max.)

Mode/Cut and Equivalent Series Resistance (Ω)

	Mode	Max ESR Ω
2.000~ 2.999	Fundamental/AT	300
	Fundamental/AT	150
3.500~3.999	Fundamental/AT	90
	Fundamental/AT	70
5.000~5.999	Fundamental/AT	50
	Fundamental/AT	40
8.000~12.999	Fundamental/AT	30
	Fundamental/AT	20
20.000~36.000	Fundamental/BT	20
	3rd overtone/AT	60

MARKING RULE



- Line 1: Oscillating frequency
- Line 2: MHz
- Line 3: Ansen / Date Code

PART NUMBERING GUIDE

Example: AS49U-25M-FE160E2

MODEL	Frequency	Mode	Tolerance	CL	Stability	OP Temp Range
AS49U	In MHZ	F: Fundamental 3: 3rd Overtone	A: ± 10ppm B: ± 15ppm C: ± 20ppm D: ± 25ppm E: ± 30ppm F: ± 50ppm G: ± 100ppm O: Others	080: 8pF 125: 12.5pF 160: 16pF 180: 18pF 200: 20pF 300: 30pF 320: 32pF S: Series	A: ± 10ppm B: ± 15ppm C: ± 20ppm D: ± 25ppm E: ± 30ppm F: ± 50ppm G: ± 100ppm O: Others	1: 0 to +70°C 2: -10 to +70°C 3: -20 to +70°C 4: -20 to +80°C 5: -40 to +85°C 6: -40 to +105°C 0: Others

DIMENSION (mm)

