

LOW PROFILE RESISTANCE WELD THRU-HOLE PACKAGE - HC49S & HC49SS Series

FEATURES

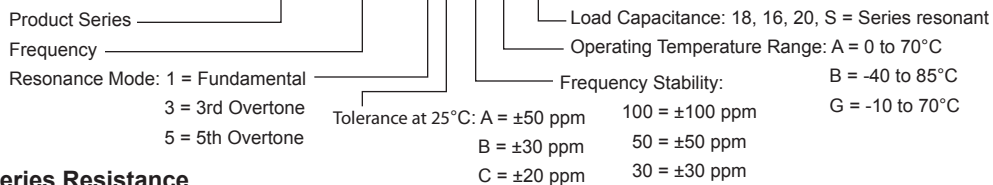
- RoHS Compliant (Pb-Free), Low Profile, 3.6 mm Maximum Height
- AT-cut Crystal, Excellent Aging, Extended Temperature Range
- Industry Standard Package, Same Pin Layout as HC-49/U
- Low Cost, Popular Microprocessor Crystals, Various Options

SPECIFICATIONS

| | |
|--------------------------------------|--|
| Frequency Range | 3.500 MHz to 70.000 MHz |
| Resonance Mode | 1 = Fundamental (3.5 to 32 MHz); 3 = 3rd Overtone (27 to 70 MHz) |
| Package Option | HC49S = HC-49/US, 3.6 mm Height; HC49SS = HC-49/US, 2.5 mm Height |
| Calibration Tolerance @25°C | A = ±50 ppm; B = ±30 ppm; C = ±20 ppm; D = ±15 ppm; E = ±10 ppm |
| Frequency Stability Ref @25°C | 100 = ±100 ppm; 50 = ±50 ppm; 30 = ±30 ppm |
| Temperature Range | A = 0°C to 70°C; B = -40°C to 85°C; C = -10°C to 60°C; D = -20°C to 70°C |
| Crystal Aging | ±5 ppm / year Maximum |
| Storage Temperature | -55°C to 125°C |
| Load Capacitance (CL) | CL = 18 pF (Standard), 16 pF, 20 pF, others, or S = Series resonant |
| Shunt Capacitance | 7 pF Maximum |
| Drive Level | 0.1 mW Typical, 1 mW Maximum |
| Pullability (option) | May be specified in terms of frequency shift over a certain range of CL |

Creating a Part Number

HC49S-16M000-1 B 50 D 18 -options



Equivalent Series Resistance

| Frequency (MHz) | Mode | Max ESR (Ohms) |
|-----------------|------|----------------|
| 3.500 - 3.999 | Fund | 200 |
| 4.000 - 4.999 | Fund | 150 |
| 5.000 - 5.999 | Fund | 120 |
| 6.000 - 6.999 | Fund | 100 |
| 7.000 - 8.999 | Fund | 80 |
| 9.000 - 12.999 | Fund | 60 |
| 13.000 - 15.999 | Fund | 50 |

| Frequency (MHz) | Mode | Max ESR (Ohms) |
|-----------------|---------|----------------|
| 16.000 - 19.999 | Fund | 40 |
| 20.000 - 32.000 | Fund | 30 |
| 27.000 - 70.00 | 3rd O/T | 100 |

OUTLINE DRAWING

