



**METAL CAN WITH FORMED LEADS SURFACE MOUNT PACKAGE - HC49SM & HC49SSM Series**

**FEATURES**

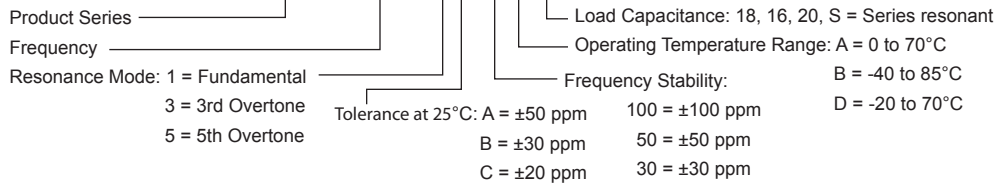
- RoHS Compliant (Pb-Free), Low Profile Surface Mount Package
- AT-cut Crystal, Excellent Aging, Extended Temperature Range
- Industry Standard SMD Footprint
- Low Cost, Popular Microprocessor Crystals

**SPECIFICATIONS**

<b>Frequency Range</b>	3.500 MHz to 70.000 MHz
<b>Resonance Mode</b>	1 = Fundamental (3.5 to 36 MHz); 3 = 3rd Overtone (27 to 70 MHz)
<b>Package Option</b>	HC49SM = 4.0 mm Height; HC49SSM = 3.0 mm Height
<b>Calibration Tolerance @25°C</b>	A = ±50 ppm; B = ±30 ppm; C = ±20 ppm; D = ±15 ppm; E = ±10 ppm
<b>Frequency Stability Ref @25°C</b>	100 = ±100 ppm; 50 = ±50 ppm; 30 = ±30 ppm
<b>Temperature Range</b>	A = 0°C to 70°C; B = -40°C to 85°C; C = -10°C to 60°C; D = -20°C to 70°C
<b>Crystal Aging</b>	±5 ppm / year Maximum
<b>Storage Temperature</b>	-55°C to 125°C
<b>Load Capacitance (CL)</b>	CL = 18 pF (Standard), 16 pF, 20 pF, others, or S = Series resonant
<b>Shunt Capacitance</b>	7 pF Maximum
<b>Drive Level</b>	0.1 mW Typical, 1 mW Maximum

**Creating a Part Number**

**HC49SM-16M000-1 B 50 A 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 - 36.000	Fund	30
27.000 - 70.00	3rd O/T	100

**OUTLINE DRAWING**

