

13.6 x 10.3 x 4.9mm Leaded Crystal

1.0MHz to 250.0MHz

Page 1 of 1





Low-cost, industry-standard crystal unit

- Available to close tolerances
- Frequency range 1.0MHz to 250MHz
- Package options

DESCRIPTION

HC49 crystals are long-established, industry-standard crystals. Standard HC49 crystals provide a very low cost source of system clock frequency and they are also able to be produced to very close tolerances where required. Several holder variants are possible.

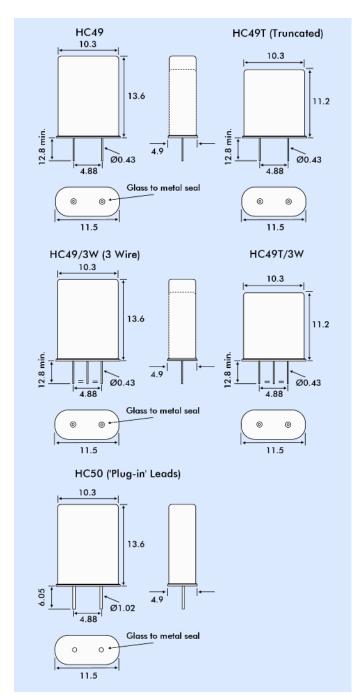
SPECIFICATION

Frequency Range:	1.0MHz to 250MHz	
Oscillation Mode:	See table	
Calibration Tolerance at 25°C:	from ±3ppm to ±50ppm	
Frequency Stability:	from ±3ppm to ±50ppm	
Shunt Capacitance (C0):	7pF maximum	
Load Capacitance (CL):	Series or from 8pF to 32pF	
	(Customer specified CL)	
Ageing:	±3ppm maximum, 1st year,	
	±1ppm per year thereafter.	
Drive Level:	100μW typical., 500μW max.	
Crystal Holder:	Resistance-weld hermetic seal	
Supply format:	Bulk pack	

ESR and OSCILLATION MODE

Frequency Range MHz	Crystal Cut Osc. Mode	ESR Ω Max.
1.0 ~1.3	SL Fund.	5000
$2.01 \sim 3.0$	AT Fund.	400
$3.01 \sim 3.2$	AT Fund.	200
$3.21 \sim 3.5$	AT Fund.	150
$3.51 \sim 3.9$	AT Fund.	120
3.91 ~ 5.0	AT Fund.	100
5.01 ~ 7.0	AT Fund.	50
7.01 ~ 10.0	AT Fund.	35
10.0 ~ 30.0	AT Fund.	25
30.1 ~ 45.0	AT Fund.	20
24.0 ~ 100	AT 3rd OT	40
80.0 ~ 160	At 5th OT	70
110 ~ 250	AT 7th OT	120

OUTLINES & DIMENSIONS



PART NUMBER GENERATION

Part numbers for HC49 crystals are generated as follows:

Example: 16.00MHz HC49/20/30/-10+60/30pF/30R

Frequency /holder /calibration tolerance /stability /temp. range / circuit condition /ESR