

HC49-4H and HC49-4HL Crystals

Low-profile crystal units





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- Low-cost, industry-standard crystal unit
- AT-Cut strip crystal with hermetically sealed can
- Frequency range 3.2MHz to 70MHz
- Package height options available

DESCRIPTION

HC49-4H crystals have the same base outline as the industrystandard HC49 crystal. The crystal uses at AT-cut strip crystal with an hermetically sealed can. HC49-4H crystals provide a low cost source of system clock frequency.

SPECIFICATION

	Frequency Range:	3.2MHz to 70.0MHz
	Oscillation Mode/Frequency	
	AT-Cut Fundamental:	3.2MHz to 48.0MHz
	AT-Cut 3rd Overtone:	27.0MHz to 70.0MHz
	BT-Cut Fundamental:	24.0MHz to 48.0MHz
	Calibration Tolerance at 25°C:	± 5 ppm, ± 10 ppm, ± 20 ppm or
		±30ppm at 25°C
	Frequency Stability:	See table
	Load Capacitance (CL):	Series or from 8pF to 32pF
	Ageing at 25°C:	±3ppm maximum, 1st year,
		±1ppm per year thereafter.
	Drive Level:	100μW typical, 500μW maximum
	Storage Temperature Range:	-50° to +105°C
	Crystal Holder:	Resistance-weld hermetic seal
	RoHS Status:	Compliant
	Supply format:	Bulk pack (Radial tape and reel is available)

ESR and OSCILLATION MODE

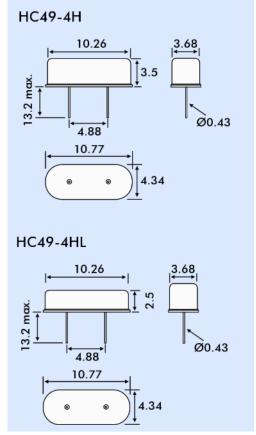
Frequency Range MHz	Crystal Cut Osc. Mode	ESR Ω Max.	
3.2 ~ 3.4	AT-Fund.	300	
3.5 ~ 6.0	AT-Fund.	120	
6.1 ~ 10.0	AT-Fund.	60	
10.1 ~ 30.0	AT-Fund.	40	
24.0 ~ 48.0	BT-Fund.	40	
27.0 ~ 30.0	AT-3rd ot	150	
30.1 ~ 50.0	AT-3rd ot	100	
50.1 ~ 70.0	AT-3rd ot	80	

FREQ STABILITY vs STANDARD OPERATING TEMP RANGE

Temp. °C/ppm	±10	±15	±20	±25	±30
-10 to +60	✓	✓	✓	✓	✓
-20 to +70	ASK	✓	✓	✓	✓
-40 to +85	Χ	✓	✓	✓	✓

N.B. For custom temp/stab ranges, please contact Euroquartz Sales

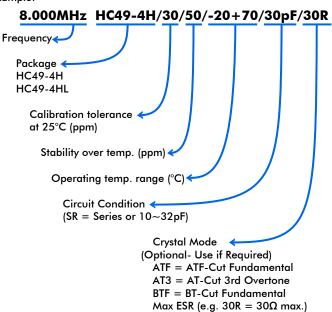
OUTLINES & DIMENSIONS



PART NUMBERS

Part numbers for HC49-4H crystals are generated as follows:

Example:



Issue 3