

ISSUE 7; July 2021

### Description

- SMD 4 pad version of the HC49/3.5H.  
Resistance welded, hermetically sealed in an inert atmosphere, glass to metal seals on leads.  
Please see our 88SMX for a 6 pad version of this package.  
Please see our HC49/4HSMX for standard stock items in this package type.

### Frequency Parameters

- |                       |                         |
|-----------------------|-------------------------|
| ■ Frequency           | 3.2MHz to 100.0MHz      |
| ■ Frequency Tolerance | ±10.00ppm to ±100.00ppm |
| ■ Frequency Stability | ±15.00ppm to ±500.00ppm |
| ■ Ageing              | ± 5ppm max per year     |

### Electrical Parameters

- |                          |                  |
|--------------------------|------------------|
| ■ Load Capacitance (CL)  | 10.0pF to 75.0pF |
| ■ Shunt Capacitance (C0) | 7pF max          |
| ■ Drive Level            | 500µW max        |

### Operating Temperature Ranges

- 0 to 50°C
- -10 to 60°C
- -20 to 70°C
- -30 to 80°C
- -40 to 85°C
- -55 to 105°C

### Environmental Parameters

- Shock: 981m/s<sup>2</sup>, 6ms, 3 times in each of 3 mutually perpendicular planes.
- Vibration: 10Hz-60Hz, 0.75mm amplitude, 60Hz-500Hz, 98.1m/s<sup>2</sup>, 30mins in 3 mutually perpendicular planes.
- Storage Temperature Range -55°C to 125°C

### Manufacturing Details

- |                     |               |
|---------------------|---------------|
| ■ RoHS Terminations | CuSnNiP or Sn |
| ■ RoHS Reflow       | 260degC 10s   |

### Ordering Information

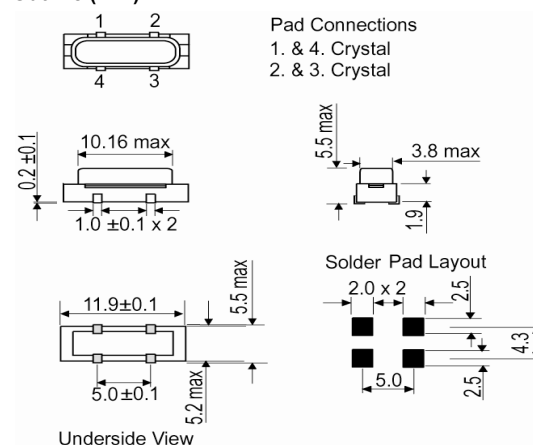
- Frequency\*  
Model\*  
Frequency Tolerance (@25°C)\*  
Frequency Stability (over operating temperature range)\*  
Operating Temperature Range\*  
Load Capacitance\*  
Overtone\*
- Example  
10.0MHz CFPX-98  
50/50/-40 to 85C/10 FUND

### Compliance

- |                              |                |
|------------------------------|----------------|
| ■ RoHS Status (2015/863/EU)  | Compliant      |
| ■ REACh Status               | Compliant      |
| ■ MSL Rating (JDEC-STD-033): | Not Applicable |



### Outline (mm)



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**Packaging Details**

- Pack Style: Reel      Tape & reel in accordance with EIA-481-D  
Pack Size: 1,000
- Pack Style: Cutt      In tape, cut from a reel  
Pack Size: 100
- Pack Style: Bulk      Loose in bulk pack  
Pack Size: 100

**Electrical Specification - maximum limiting values**

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Over Tone Order	ESR
		°C	ppm		Ω
3.2MHz	3.999999MHz	0 to 50	±15	Fundamental	300
		-10 to 60	±20		300
		-20 to 70	±20		300
		-30 to 80	±25		300
		-40 to 85	±30		300
		-55 to 105	±100		300
4.0MHz	5.499999MHz	0 to 50	±15	Fundamental	130
		-10 to 60	±20		130
		-20 to 70	±20		130
		-30 to 80	±25		130
		-40 to 85	±30		130
		-55 to 105	±100		130
5.5MHz	7.999999MHz	0 to 50	±15	Fundamental	60
		-10 to 60	±20		60
		-20 to 70	±20		60
		-30 to 80	±25		60
		-40 to 85	±30		60
		-55 to 105	±100		60
8.0MHz	40.0MHz	0 to 50	±15	Fundamental	40
		-10 to 60	±20		40
		-20 to 70	±20		40
		-30 to 80	±25		40
		-40 to 85	±30		40
		-55 to 105	±100		40
26.0MHz	100.0MHz	0 to 50	±15	3rd Overtone	100
		-10 to 60	±20		100
		-20 to 70	±20		100
		-30 to 80	±25		100
		-40 to 85	±30		100
		-55 to 105	±100		100

\*Stability Maximum values ±500ppm

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