



ISSUE 15; August 2015

Description

- Industry standard leaded package
Resistance welded, hermetically sealed in an inert atmosphere, glass to metal seals on leads
Variants available include but are not limited to:-
3L = an additional centre mounted leg grounds the can
TW = an additional top mounted leg grounds the can
T = a truncated height of 11.1mm
Please see our HC49 Gull-Wing for a SMD alternative
Please contact our sales offices for more options
- -3L 3 Lead
- Additional 3rd leg added to facilitate grounding of the metal can
- -3L/TW 3 Lead and Top Wire
- Additional 3rd leg and Top Wire added to facilitate grounding of the metal can
- -SL Sleeve
- An insulating sleeve protects the metal can from electrical contact
- -SMD HC49 Gull-wing
- -TW Top Wire
- Additional Top Wire added to facilitate grounding of the metal can
- -WME With fitted melinex insulating washer
- -WMY With fitted mylar insulating washer
- -WPO With fitted polyester film insulating washer
- -WPT With fitted PTFE insulating washer
- -WTE With fitted teflon insulating washer

Frequency Parameters

- | | |
|-----------------------|------------------------|
| ■ Frequency | 1.8432MHz to 270.0MHz |
| ■ Frequency Tolerance | ±5.00ppm to ±100.00ppm |
| ■ Frequency Stability | ±5.00ppm to ±200.00ppm |
| ■ Ageing | ±3ppm typical per year |

Electrical Parameters

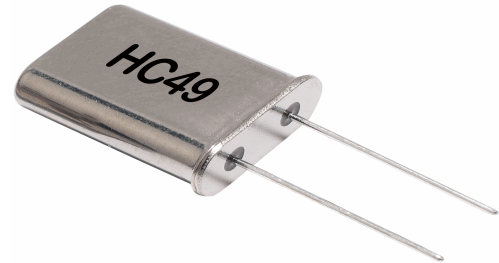
- | | |
|---------------------|------------------|
| ■ Load Capacitance | 10.0pF to 75.0pF |
| ■ Shunt Capacitance | 7pF max |
| ■ Drive Level | 1mW max |

Operating Temperature Ranges

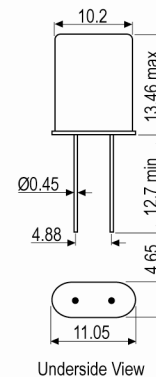
- 0 to 50°C
- -10 to 60°C
- -20 to 70°C
- -30 to 80°C
- -40 to 85°C
- -55 to 105°C
- -55 to 125°C

Environmental Parameters

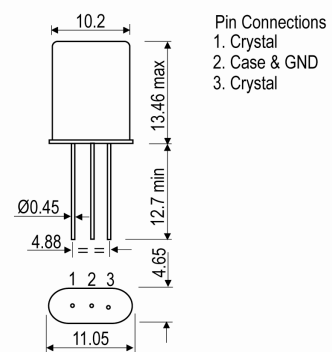
- Shock: 981m/s², 6ms, 3 times in each of 3 mutually perpendicular planes
- Vibration: 10Hz-60Hz, 0.75mm amplitude, 60Hz-500Hz, 98.1m/s², 30mins in 3 mutually perpendicular planes
- Storage Temperature Range: -55 to 125°C



Outline (mm) Standard 2 leg HC49 package



Outline (mm) -3L = 3 Lead



Sales Office Contact Details:

UK: +44 (0)1460 270200
Germany: 0800 1808 443

France: 0800 901 383
USA: +1 408.273.4530

Email: info@iqdfrequencyproducts.com
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Ordering Information

- Frequency*
- Model*
- Frequency Tolerance (@25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone*
- Example:
10.0MHz HC49
50/50/-40 to 85C/10 FUND

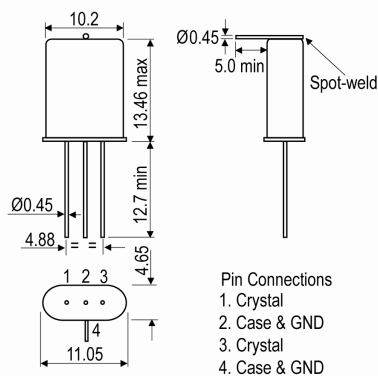
Compliance

- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

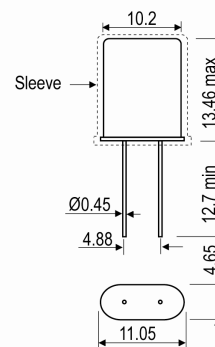
Packaging Details

- Pack Style: Bulk Loose in bulk pack
Pack Size: 100
- Pack Style: Ammo Tape & ammo in accordance with
Pack Size: 1,000 EIA-468-C
- Pack Style: Cutt In tape, cut from a reel
Pack Size: 10
- Pack Style: Reel Tape & reel in accordance with EIA-468-C
Pack Size: 1,000
- Pack Style: R250 Tape & reel in accordance with EIA-481-D
Pack Size: 250
- Pack Style: R500 Tape & reel in accordance with EIA-468-C
Pack Size: 500

Outline (mm) -3L/TW = 3 Lead and Top Wire



Outline (mm) -SL = Sleeve



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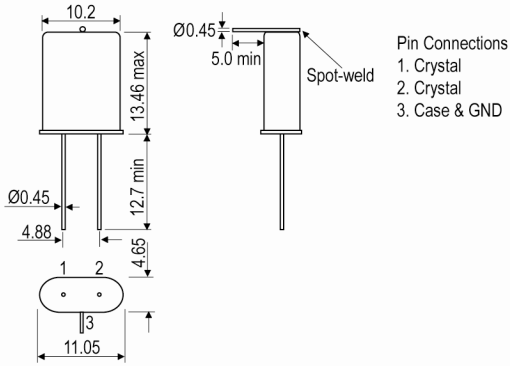
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Outline (mm) -TW = Top Wire



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Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability*	Over Tone Order	ESR
		°C	ppm		Ω
1.8432MHz	1.999999MHz	0 to 50 -10 to 60 -20 to 70 -30 to 80 -40 to 85 -55 to 105 -55 to 125	±15 ±20 ±20 ±25 ±30 ±50 ±100	Fundamental	800
2.0MHz	2.999999MHz	0 to 50 -10 to 60 -20 to 70 -30 to 80 -40 to 85 -55 to 105 -55 to 125	±15 ±20 ±20 ±25 ±30 ±50 ±100	Fundamental	600
3.0MHz	3.999999MHz	0 to 50 -10 to 60 -20 to 70 -30 to 80 -40 to 85 -55 to 105 -55 to 125	±15 ±20 ±20 ±25 ±30 ±50 ±100	Fundamental	150
4.0MHz	6.999999MHz	0 to 50 -10 to 60 -20 to 70 -30 to 80 -40 to 85 -55 to 105 -55 to 125	±15 ±20 ±20 ±25 ±30 ±50 ±100	Fundamental	100
7.0MHz	9.999999MHz	0 to 50 -10 to 60 -20 to 70 -30 to 80 -40 to 85 -55 to 105 -55 to 125	±15 ±20 ±20 ±25 ±30 ±50 ±100	Fundamental	50
10.0MHz	36.0MHz	0 to 50 -10 to 60 -20 to 70 -30 to 80 -40 to 85 -55 to 105 -55 to 125	±15 ±20 ±20 ±25 ±30 ±50 ±100	Fundamental	35
21.0MHz	90.0MHz	0 to 50 -10 to 60 -20 to 70	±15 ±20 ±20	3rd Overtone	40

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Frequency Min	Frequency Max	Temperature Range	Stability*	Over Tone Order	ESR
		°C	ppm		Ω
		-30 to 80	±25		
		-40 to 85	±30		
		-55 to 105	±50		
		-55 to 125	±100		
60.0MHz	150.0MHz	0 to 50	±10	5th Overtone	70
		-10 to 60	±15		
		-20 to 70	±15		
		-30 to 80	±20		
		-40 to 85	±25		
		-55 to 105	±50		
		-55 to 125	±50		
85.0MHz	210.0MHz	0 to 50	±5	7th Overtone	100
		-10 to 60	±5		
		-20 to 70	±10		
		-30 to 80	±20		
		-40 to 85	±25		
		-55 to 105	±50		
		-55 to 125	±50		
110.0MHz	270.0MHz	0 to 50	±5	9th Overtone	150
		-10 to 60	±5		
		-20 to 70	±10		
		-30 to 80	±20		
		-40 to 85	±25		
		-55 to 105	±50		
		-55 to 125	±50		

*Stability Maximum values ±200ppm

This document was correct at the time of printing; please contact your local sales office for the latest version.

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