

ISSUE 15; March 2022

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

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

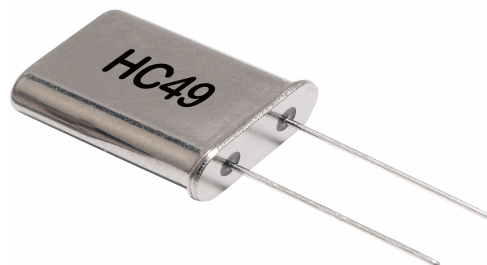
- Shock: 981m/s², 6ms, 3 times in each of 3 mutually perpendicular planes
- Vibration: 10Hz-60Hz, 0.75mm amplitude, 60Hz-500Hz, 98.1m/s², 30mins in 3 mutually perpendicular planes
- Storage Temperature Range: -55 to 125°C

Ordering Information

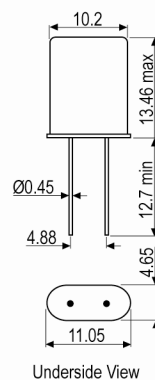
- Frequency*
Model*
Frequency Tolerance (@25°C)*
Frequency Stability (over operating temperature range)*
Operating Temperature Range*
Load Capacitance*
Overtone*
- Example:
10.0MHz HC49
50/50/-40 to 85C/10 FUND

Compliance

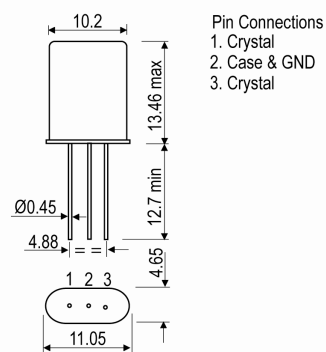
- | | |
|------------------------------|----------------|
| ■ RoHS Status (2015/863/EU) | Compliant |
| ■ REACH Status | Compliant |
| ■ MSL Rating (JDEC-STD-033): | Not Applicable |



Outline (mm) Standard 2 leg HC49 package



Outline (mm) -3L = 3 Lead



Sales Office Contact Details:

UK: +44 (0)1460 270200

USA: +1.760.318.2824

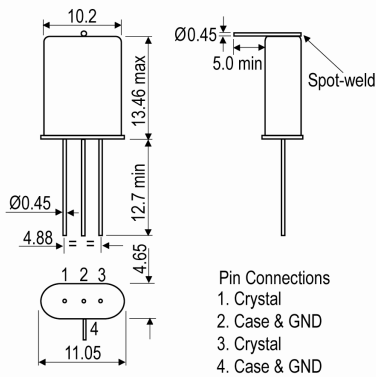
Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com

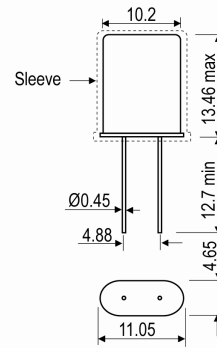
Packaging Details

- Pack Style: R250 Tape & reel in accordance with EIA-481-D
Pack Size: 250
- Pack Style: Reel Tape & reel in accordance with EIA-468-C
Pack Size: 1,000
- Pack Style: Bulk Loose in bulk pack
Pack Size: 100
- Pack Style: R500 Tape & reel in accordance with EIA-468-C
Pack Size: 500
- 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: 100

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



Outline (mm) -SL = Sleeve



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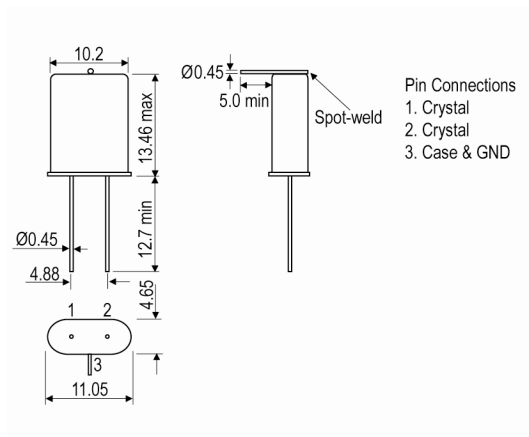
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Outline (mm) -TW = Top Wire



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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	±15	Fundamental	800
		-10 to 60	±20		800
		-20 to 70	±20		800
		-30 to 80	±25		800
		-40 to 85	±30		800
		-55 to 105	±50		800
		-55 to 125	±100		800
2.0MHz	2.999999MHz	0 to 50	±15	Fundamental	600
		-10 to 60	±20		600
		-20 to 70	±20		600
		-30 to 80	±25		600
		-40 to 85	±30		600
		-55 to 105	±50		600
		-55 to 125	±100		600
3.0MHz	3.999999MHz	0 to 50	±15	Fundamental	150
		-10 to 60	±20		150
		-20 to 70	±20		150
		-30 to 80	±25		150
		-40 to 85	±30		150
		-55 to 105	±50		150
		-55 to 125	±100		150
4.0MHz	6.999999MHz	0 to 50	±15	Fundamental	100
		-10 to 60	±20		100
		-20 to 70	±20		100
		-30 to 80	±25		100
		-40 to 85	±30		100
		-55 to 105	±50		100
		-55 to 125	±100		100
7.0MHz	9.999999MHz	0 to 50	±15	Fundamental	50
		-10 to 60	±20		50
		-20 to 70	±20		50
		-30 to 80	±25		50
		-40 to 85	±30		50
		-55 to 105	±50		50
		-55 to 125	±100		50
10.0MHz	36.0MHz	0 to 50	±15	Fundamental	35
		-10 to 60	±20		35
		-20 to 70	±20		35
		-30 to 80	±25		35
		-40 to 85	±30		35
		-55 to 105	±50		35
		-55 to 125	±100		35
21.0MHz	90.0MHz	0 to 50	±15	3rd Overtone	40
		-10 to 60	±20		40
		-20 to 70	±20		40

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

*Stability Maximum values ±200ppm

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

[Click to view latest version on our website.](#)

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