

ISSUE 14; April 2016

Description

- Resistance Welded enclosure with truncated height
- -3L 3 Lead
- -3L/SL 3 Lead and Sleeve
- -3L/TW 3 Lead and Top Wire
- -3L/TW/SL 3 Lead, Top Wire and Sleeve
- -SL Sleeve
- -SMD Surface Mount Device
- -TW Top Wire
- -TW/SL Top Wire and Sleeve

Frequency Parameters

- | | |
|-----------------------|--------------------------------|
| ■ Frequency | 4.0MHz to 270.0MHz |
| ■ Frequency Tolerance | ±5.00ppm to ±100.00ppm @ 25°C |
| ■ Tolerance Condition | @ 25°C |
| ■ Frequency Stability | ±15.00ppm to ±100.00ppm |
| ■ Ageing | ±3ppm typical per year at 25°C |

Electrical Parameters

- | | |
|--------------------------|------------------|
| ■ Load Capacitance (CL) | 10.0pF to 75.0pF |
| ■ Shunt Capacitance (C0) | 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

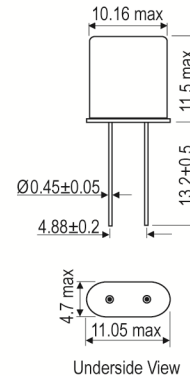
Ordering Information

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

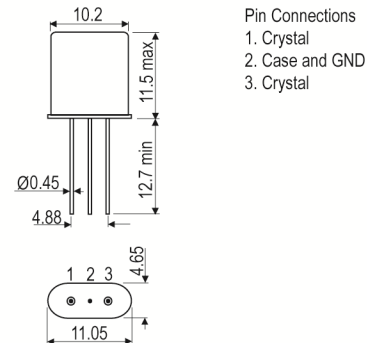
Compliance

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

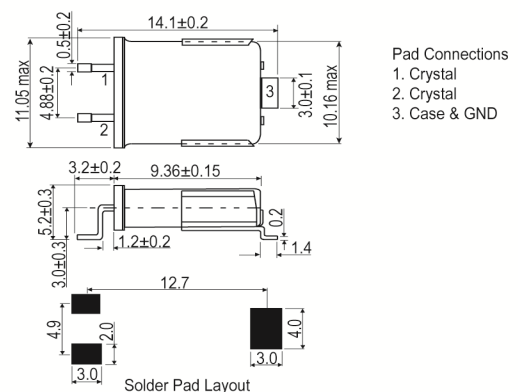
Outline (mm)



Outline (mm) -3L = 3 Lead



Outline (mm) -SMD = Surface Mount Device



Sales Office Contact Details:

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

France: 0800 901 383
USA: +1.760.318.2824

Email: info@iqdfrequencyproducts.com
Web: www.iqdfrequencyproducts.com

Packaging Details

- Pack Style: Reel Tape and reel in accordance with
Pack Size: 1,000 EAI-481-C
- Pack Style: Ammo Ammo
Pack Size: 1,000
- Pack Style: Bulk Bulk
Pack Size: 100

Sales Office Contact Details:

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

France: 0800 901 383
USA: +1.760.318.2824

Email: info@iqdfrequencyproducts.com
Web: www.iqdfrequencyproducts.com

Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Over Tone Order	ESR
		°C	ppm		Ω
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 -30 to 80 -40 to 85 -55 to 105 -55 to 125	±15 ±20 ±20 ±25 ±30 ±50 ±100	3rd Overtone	40
60.0MHz	150.0MHz	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 ±50	5th Overtone	70
85.0MHz	210.0MHz	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	7th Overtone	100
110.0MHz	270.0MHz	0 to 50 -10 to 60 -20 to 70	±15 ±20 ±20	9th Overtone	150

Sales Office Contact Details:

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

France: 0800 901 383
USA: +1.760.318.2824

Email: info@iqdfrequencyproducts.com
Web: www.iqdfrequencyproducts.com

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Over Tone Order	ESR
		°C	ppm		Ω
		-30 to 80	±25		
		-40 to 85	±30		
		-55 to 105	±50		
		-55 to 125	±100		

*Stability Maximum values $\pm 100\text{ppm}$

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.](#)

Sales Office Contact Details:

UK: +44 (0)1460 270200

Germany: 0800 1808 443

France: 0800 901 383

USA: +1.760.318.2824

Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com