

ISSUE 16; June 2019

Description

- Low cost SMD crystal with a 3rd center leg for 'grounding' the package.
Resistance welded, hermetically sealed in an inert atmosphere, glass to metal seals on leads.
Lead wires are mounted onto a plastic former to create a gull wing mount.
- 3H 3.1mm max height

Frequency Parameters

- Frequency: 3.2MHz to 100.0MHz
- Frequency Tolerance: $\pm 10.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Tolerance Condition: @ 25°C
- Frequency Stability: $\pm 15.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Ageing: $\pm 5\text{ppm}$ typical per year @ 25°C

Electrical Parameters

- Load Capacitance (CL): 10.0pF to 75.0pF
- Shunt Capacitance (C0): 7pF max
- Drive Level: 500 μ W 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/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 IQXC-41
50/50/-40 to 80C/20 FUND

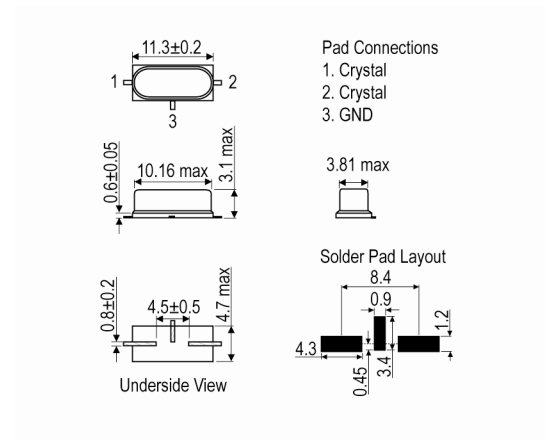
Compliance

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

Outline (mm)



Outline (mm) -3H = 3.1mm max height



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Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481-D
 Pack Size: 1,000
- Pack Style: Bulk Bulk
 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 | 39.999999MHz | 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 ±100ppm

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