



ISSUE 2; February 2012 - RoHS 2011/65/EU

Description

- MEMS alternative to the CFPS-31
- Low jitter MEMS oscillator with CMOS output in a plastic package
- Factory programmable for a fast lead time

Frequency Range

- Frequency: 1.0 to 110.0MHz

Supply Voltage

- Voltage: 1.8V ±10%

Ageing

- Ageing: ±1ppm typical in 1st year at 25°C

Output Compatibility & Load

- Output Compatibility: CMOS
- Drive Capability: 15pF max

Frequency Stabilities

- Frequency Stability: ±20ppm, ±25ppm

Operating Temperature Ranges

- 20 to 70°C
- 40 to 85°C

Electrical Parameters

- Temperature Cycle: JESD22, Method A104
- Start-Up Time: 10ms max

Noise Parameter

- RMS Period Jitter @ 75MHz: 4ps max

Environmental Parameters

- Shock: MIL-STD-883F, Method 2002
- Vibration: MIL-STD-883F, Method 2007
- Solderability: MIL-STD-883F, Method 2003
- MSL level 1
- Storage Temperature Range: -65 to 125°C

Ordering Information (*minimum required)

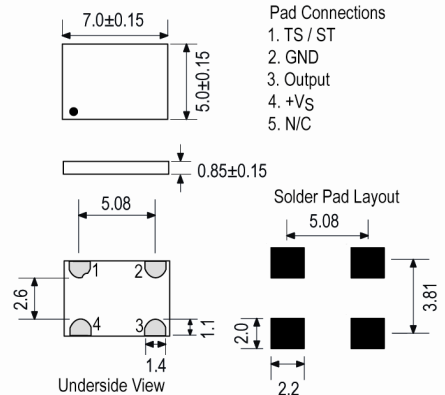
- Frequency*
- Model*
- Output Compatibility
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Supply Voltage
- TS/ST Option*
- Example
- 40.00MHz IQMS-500
- CMOS ±50ppm -20 to 70C 3.3V TS

Packing Details

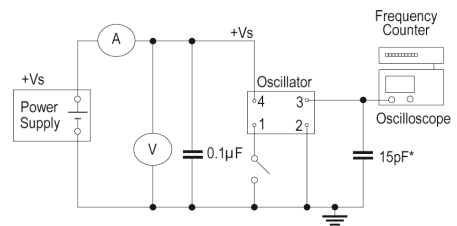
- Pack Style: **Bulk** Loose in bulk pack
- Pack Size: 100
- Pack Style: **Reel** Tape and reel in accordance with EIA-481-D
- Pack Size: 1,000
- Alternative packing options available



Outline (mm)



Test Circuit



*Inclusive of jigging and equipment capacitance

Sales Office Contact Details:

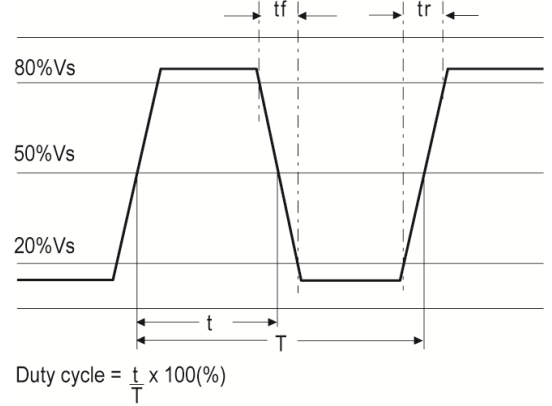
UK: +44 (0)1460 270200
 Germany: +49 (0)7264 9145-0

France: Opening 6th March 2012
 USA: +1 (0) 650 798 5047

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



Output Waveform



Electrical Specification - maximum limiting values 1.8V ±10%

| Frequency Range | Temp Range | Stability | | Current Draw | Rise & Fall (10 to 90%) | Duty Cycle % |
|--------------------|-------------|-----------|---------|--------------|-------------------------|--------------|
| | | Min | Max | | | |
| 1.00 to <70.0MHz | -20 to 70°C | ±20ppm | ±100ppm | 6.7mA | 3ns | 45/55% |
| | -40 to 85°C | ±25ppm | ±100ppm | 6.7mA | 3ns | 45/55% |
| 70.00 to <110.0MHz | -20 to 70°C | ±20ppm | ±100ppm | 6.7mA | 3ns | 40/60% |
| | -40 to 85°C | ±25ppm | ±100ppm | 6.7mA | 3ns | 40/60% |

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

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