

Description

- Standard 3.2 x 2.5mm crystal oscillator
- Ceramic package with a seam sealed metal lid, hermetically sealed
- Model: CFPS-41
- Model Issue number: 5

Frequency Parameters

- Frequency: 25.0MHz
- Frequency Stability: $\pm 25.00\text{ppm}$
- Operating Temperature Range: -10.00 to 70.00°C
- Ageing: $\pm 3\text{ppm}$ max per year @ 25°C

Electrical Parameters

- Supply Voltage: $1.8\text{V} \pm 5\%$
- Current Draw: 6.000mA

Output Details

- Output Compatibility: CMOS
- Drive Capability: 15pF max
- Rise and Fall Time: 6.0ns max
- Duty Cycle: 40/60%

Output Control

- Standby Operation:
Logic '1' ($>70\%$ VS) to pad 1 enables oscillator output
Logic '0' ($<30\%$ VS) to pad 1 disables oscillator output;
when disabled the oscillator output goes to the high impedance state
No connection to pad 1 enables oscillator output
Standby Current: $10\mu\text{A}$ max
Start-Up Time: 10ms max

Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-202F, Method 213B: 1000G , 0.5ms , $1/2$ sine wave
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20G (10Hz - 2000Hz), 4hrs in 3 mutually perpendicular planes (total 12hrs)

Manufacturing Details

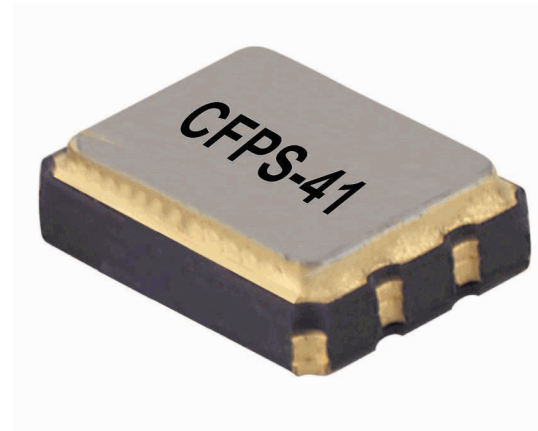
- Maximum Process Temperature: 260°C (10secs max)

Compliance

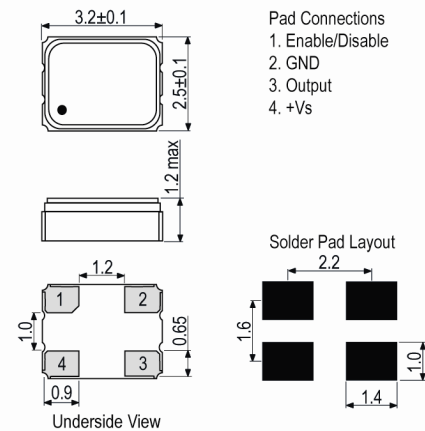
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

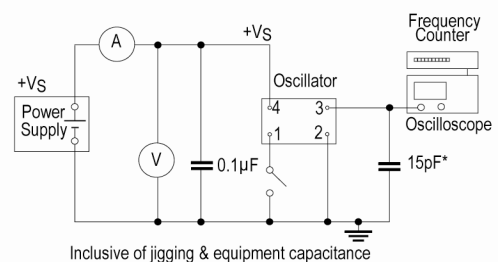
- Pack Style: Bulk Loose in bulk pack
- Pack Size: 100
- Alternative packing option available



Outline (mm)



Test Circuit

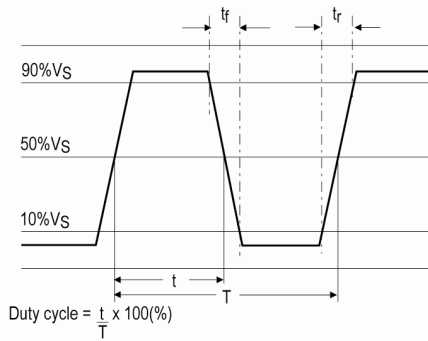


Sales Office Contact Details:

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

Wave Form**Sales Office Contact Details:**

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Germany: 0800 1808 443

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USA: +1.760.318.2824

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

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