



Description

- Surface mount 3.2 x 2.5mm crystal oscillator in a hermetically sealed ceramic package with a seam sealed metal lid.
- Model: CFPS-41
- Model Issue number: 5

Frequency Parameters

- Frequency: 18.0MHz
- Frequency Stability: ± 50.00 ppm
- Operating Temperature Range: -40.00 to 85.00°C
- Ageing: ± 3 ppm max per year @ 25°C

Electrical Parameters

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

Output Details

- Output Compatibility: CMOS
- Drive Capability: 15pF max
- Rise and Fall Time: 7.0ns 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 μ 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)
- RoHS Terminations: NiAu
- RoHS Reflow Temp: 260degC 10s

Compliance

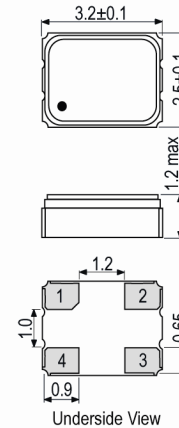
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

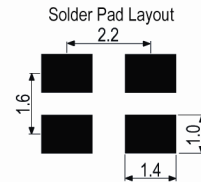
- Pack Style: Cutt In tape, cut from a reel
Pack Size: 100
- Alternative packing option available



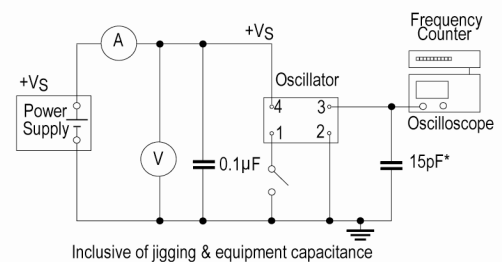
Outline (mm)



- Pad Connections
1. Enable/Disable
 2. GND
 3. Output
 4. +Vs



Test Circuit



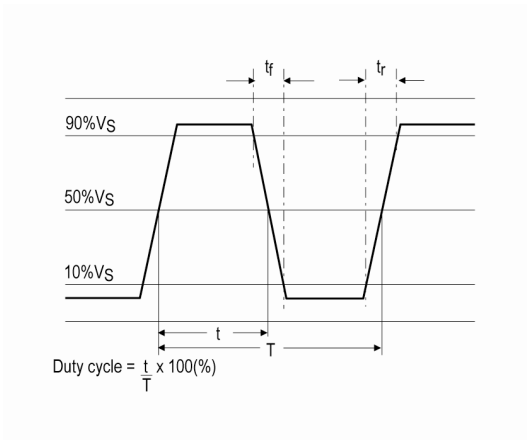
Sales Office Contact Details:

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



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Germany: 0800 1808 443

France: 0800 901 383
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