

ISSUE 5; April 2021

Description

- A 3V standard 2.5 x 2 crystal oscillator in a ceramic package with a hermetically seam sealed metal lid
For a low phase noise version of this package please see our CFPS-114 series



Frequency Parameters

- Frequency: 750.0kHz to 50.0MHz
- Frequency Stability: $\pm 30.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Ageing: $\pm 3\text{ppm}$ max per year

Electrical Parameters

- Supply Voltage: 3.0V $\pm 5\%$

Operating Temperature Ranges

- 20 to 70°C
- 40 to 85°C

Output Details

- Output Compatibility: CMOS
- Drive Capability: 15pF max
- Tri-State Operation:
Logic '1' (>80%VS) to pad 1 enables oscillator output
Logic '0' (<20% 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

Environmental Parameters

- Storage Temperature Range: -55 to 100°C
- Drop: 100cm drop (3 times) onto hard wooden board
- Vibration: 10Hz-36Hz, 1.5mm amplitude, 36Hz-55Hz, 4G sweep time 1min/oct, 2hrs in 3 mutually perpendicular planes

Manufacturing Details

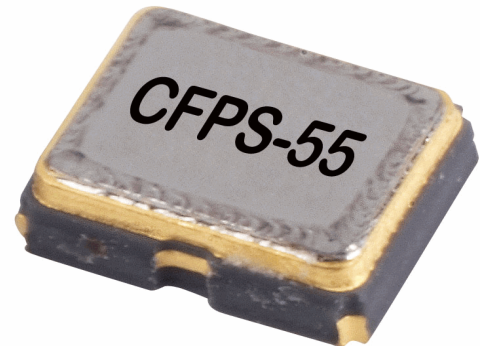
- RoHS Terminations: NiAu
- RoHS Reflow: 260degC 10s

Ordering Information

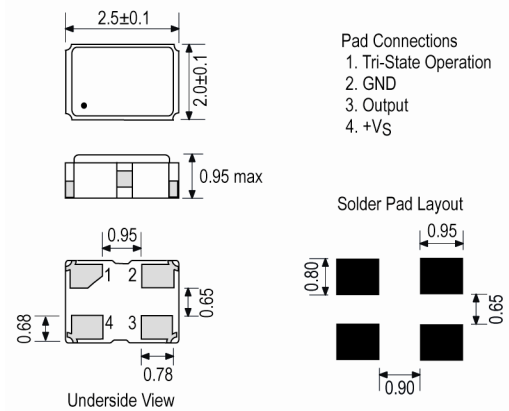
- Frequency*
- Model*
- Output
- Frequency Stability*
- Operating Temperature Range*
- Supply Voltage (*minimum required)
- Example
10.0MHz CFPS-55
CMOS $\pm 50\text{ppm}$ -20 to 70C 3.0V

Compliance

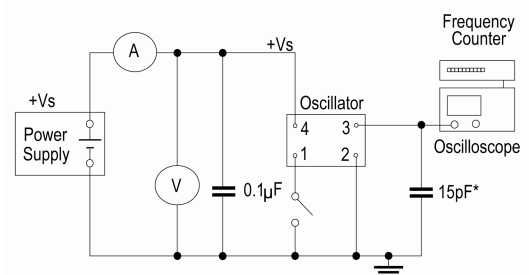
- RoHS Status (2015/863/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable



Outline (mm)



Test Circuit



*Inclusive of jiggging and equipment capacitance

Sales Office Contact Details:

UK: +44 (0)1460 270200

USA: +1.760.318.2824

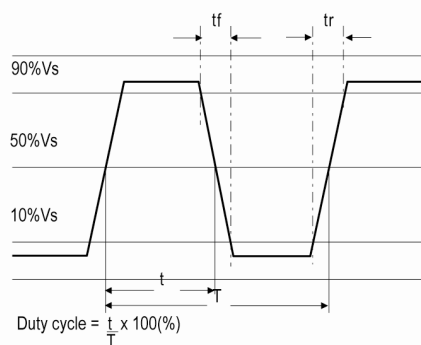
Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com

Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 1,000
- Pack Style: Cutt In tape, cut from a reel
Pack Size: 100

Wave Form



Electrical Specification - maximum limiting values 3.0V ±5%

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
750.0kHz	19.999999MHz	-20 to 70 -40 to 85	±30.0 ±30.0	5.5 5.5	10 10	45/55% 45/55%
20.0MHz	39.999999MHz	-20 to 70 -40 to 85	±30.0 ±30.0	6.5 6.5	10 10	45/55% 45/55%
40.0MHz	50.0MHz	-20 to 70 -40 to 85	±30.0 ±30.0	7.5 7.5	10 10	45/55% 45/55%

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