



ISSUE 5; August 2014 - RoHS 2011/65/EU

Description

- Standard 7 x 5mm, 1.8V surface mount oscillator in a ceramic package, with a hermetically sealed metal lid

Frequency Parameters

- Frequency 500.0kHz to 156.0MHz
- Frequency Stability $\pm 25.00\text{ppm}$ to $\pm 100.00\text{ppm}$

Electrical Parameters

- Supply Voltage 1.8V $\pm 5\%$

Operating Temperature Ranges

- 10 to 70°C
- 40 to 85°C

Output Details

- Output Compatibility CMOS
- Drive Capability 15pF max

Output Control

- Logic '1' (>70% VS) to pad 1 enables oscillator output
Logic '0' (<30% VS) to pad 1 disables oscillator output; the oscillator output goes to the high impedance state
No connection to pad 1 enables oscillator output
- Standby Current: 10µA max

Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-202, Method 213, Condition E
- Vibration: MIL-STD-883, Method 2007, Condition A

Ordering Information

- Frequency*
- Model*
- Output
- Frequency Stability*
- Operating Temperature Range*
- Supply Voltage
(*minimum required)
- Example
10.0MHz CFPS-31
CMOS $\pm 50\text{ppm}$ -10 to 70C 1.8V

Compliance

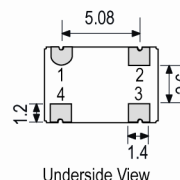
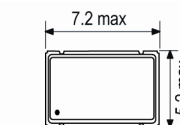
- RoHS Status Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

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

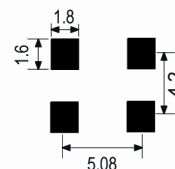


Outline (mm)

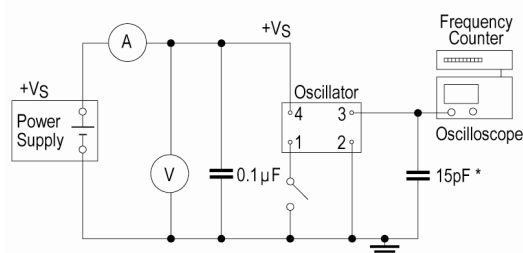


Pad Connections
1. Standby Operation
2. GND
3. Output
4. +VS

Solder Pad Layout



Test Circuit



* Inclusive of jigging and equipment capacitance

Sales Office Contact Details:

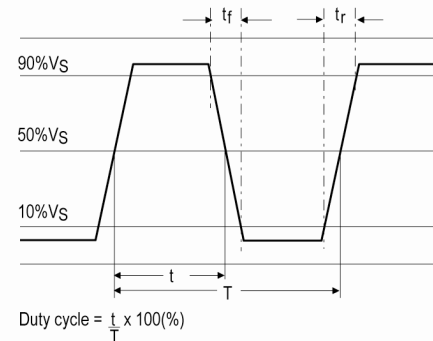
UK: +44 (0)1460 270200
Germany: +49 (0) 30 408 192 300

France: +33 (0)5 34 50 91 18
USA: +1 408.273.4530

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



Wave Form



Electrical Specification - maximum limiting values 1.8V $\pm$ 5%

Frequency Min	Frequency Max	Temperature Range	Stability (min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
500.0kHz	9.999999MHz	-40 to 85	± 25.0	5	5	40/60
		-10 to 70	± 25.0	5	5	40/60
10.0MHz	31.999999MHz	-40 to 85	± 25.0	6	5	40/60
		-10 to 70	± 25.0	6	5	40/60
32.0MHz	49.999999MHz	-40 to 85	± 25.0	15	5	40/60
		-10 to 70	± 25.0	15	5	40/60
50.0MHz	79.999999MHz	-40 to 85	± 25.0	15	4	40/60
		-10 to 70	± 25.0	15	4	40/60
80.0MHz	99.999999MHz	-40 to 85	± 25.0	20	3	40/60
		-10 to 70	± 25.0	20	3	40/60
100.0MHz	156.0MHz	-40 to 85	± 25.0	25	3	40/60
		-10 to 70	± 25.0	25	3	40/60

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

[Click to view latest version on our website.](#)

Sales Office Contact Details:

UK: +44 (0)1460 270200
Germany: +49 (0) 30 408 192 300

France: +33 (0)5 34 50 91 18
USA: +1 408.273.4530

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