



ISSUE 3; December 2012 - RoHS 2011/65/EU



Description

- Suitable for real time clock applications
32.768kHz output crystal oscillators
Ceramic package with a seam sealed metal lid, hermetically sealed

Frequency Range

- Frequency 32.7680kHz

Supply Voltage

- Voltage 2.5V $\pm 5\%$

Ageing

- Ageing $\pm 3\text{ppm}$ max per year

Output Compatibility & Load

- Output Compatibility CMOS
- Drive Capability 15pF max

Frequency Stabilities

- Frequency Stability $\pm 20\text{ppm}$, $\pm 25\text{ppm}$ $\pm 50\text{ppm}$, $\pm 100\text{ppm}$
(inclusive of supply voltage and output load variations over the operating temperature range)

Operating Temperature Ranges

- 0 to 70°C
- -40 to 85°C

Output Details

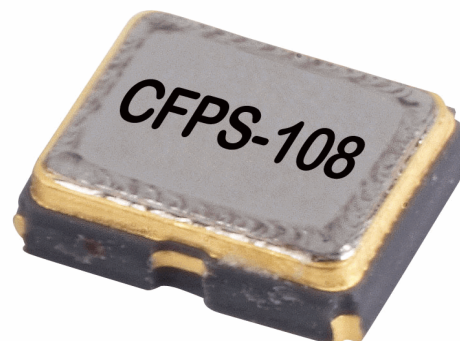
- Logic '1' to pad 1 enables oscillator output
Logic '0' to pad 1 disables oscillator output; when disabled the oscillator output goes to the high impedance state
No connection to pad 1 enables oscillator output

Environmental Parameters

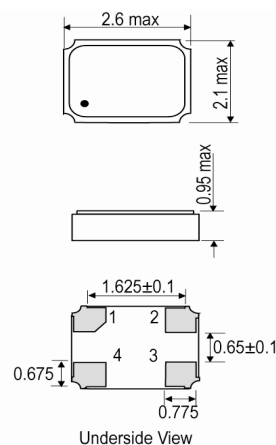
- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-883F, Method 2002.4: 1500G, 0.5ms, 3 times in each of 3 mutually perpendicular planes.
- Vibration: MIL-STD-883F, Method 2007.3: 20G (20Hz-2000Hz), 1.52mm amplitude

Ordering Information (*minimum required)

- Frequency*
- Model*
- Output
- Frequency Stability*
- Operating Temperature Range*
- Supply Voltage
- Example
32.768kHz CFPS-108
CMOS $\pm 50\text{ppm}$ 0 to 70C 2.5V

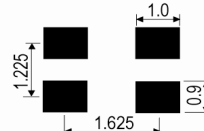


Outline (mm)

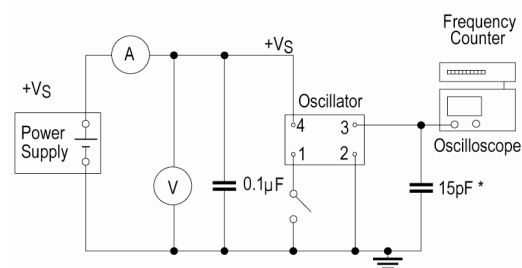


Pad Connections
1. Tri-State Operation
2. GND
3. Output
4. +Vs

Solder Pad Layout



Test Circuit



* Inclusive of jigging and equipment capacitance

Sales Office Contact Details:

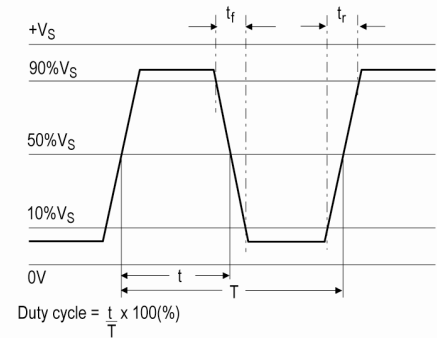
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**Packing Details**

- 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

Wave Form**Electrical Specification - maximum limiting values 2.5V $\pm$ 5%**

Frequency Range	Temp Range	Stability Inclusive		Current Draw	Rise & Fall (10 to 90%)	Duty Cycle %
		Min	Max			
32.768kHz	0 to 70°C	± 20 ppm	± 100 ppm	2.5mA	50ns	40/60%
	-40 to 85°C	± 25 ppm	± 100 ppm	2.5mA	50ns	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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