

Description

- Suitable for real time clock applications
32.768kHz output crystal oscillators
Ceramic package with a seam sealed metal lid, hermetically sealed
- Model CFPS-109
- Model Issue number 6

Frequency Parameters

- Frequency 32.7680kHz
- Frequency Stability $\pm 100.00\text{ppm}$
- Operating Temperature Range -40.00 to 125.00°C
- Ageing $\pm 3\text{ppm}$ max per year

Electrical Parameters

- Supply Voltage $3.3\text{V} \pm 5\%$
- Current Draw 3.500mA max

Output Details

- Output Compatibility CMOS
- Drive Capability 15pF max
- Rise and Fall Time 50.0ns max
- Duty Cycle $40/60\%$ max

Output Control

- Standby Operation:
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
- Start-up Time: 35ms max
 2ms typ to 90% of final amplitude (under ideal conditions @ 25°C)
- Standby Current: $10\mu\text{A}$ max, $1.35\mu\text{A}$ typ @ 25°C

Environmental Parameters

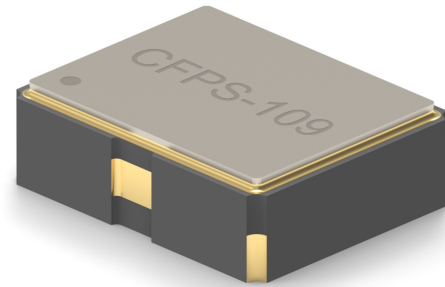
- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-883F, Method 2002.4: 1500G , 0.5ms , 3 times in each of 3 mutually perpendicular planes.
- Vibration: MIL-STD-883F, Method 2007.3: 20G (20Hz - 2000Hz), 1.52mm amplitude

Manufacturing Details

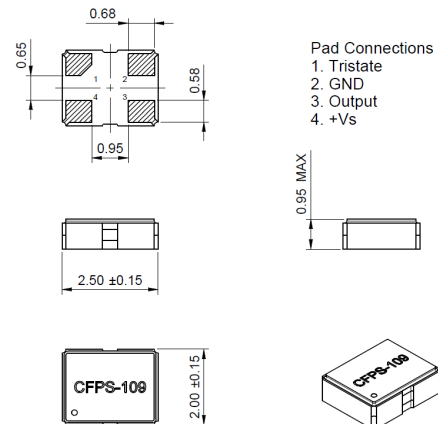
- RoHS Terminations NiAu
- RoHS Reflow Temp 260degC 10s

Compliance

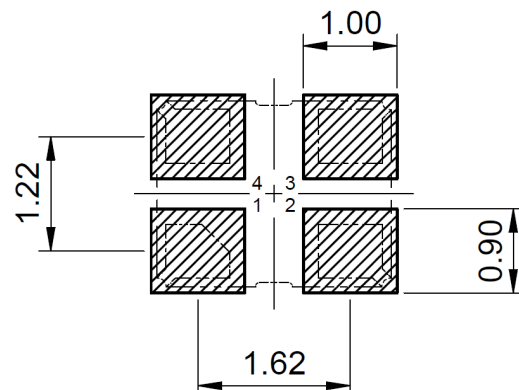
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable



Outline (mm)



Recommended Solder Pad Layout



CONTACT INFORMATION:

Würth Elektronik eiSos GmbH & Co. KG
Max-Eyth-Str. 1, 74638 Waldenburg, Germany
Tel: +49(0) 7942 945-0

Email: eiSos@we-online.de
Web: www.we-online.com

Packaging Details

- Tape & reel in accordance with EIA-481
Quantities below the standard reel size to be supplied on cut tape.
Standard Quantity: 3,000 Pieces

USEFUL LINKS

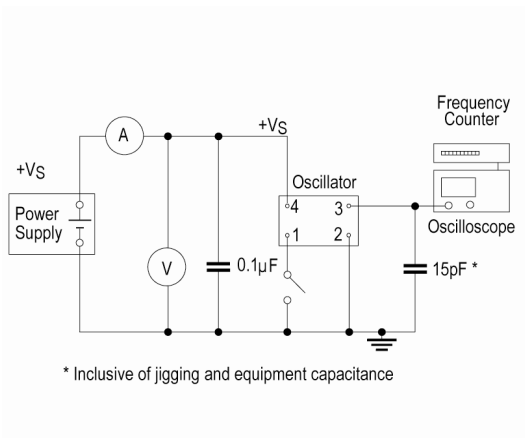
Toolbox:

www.we-online.com/toolbox

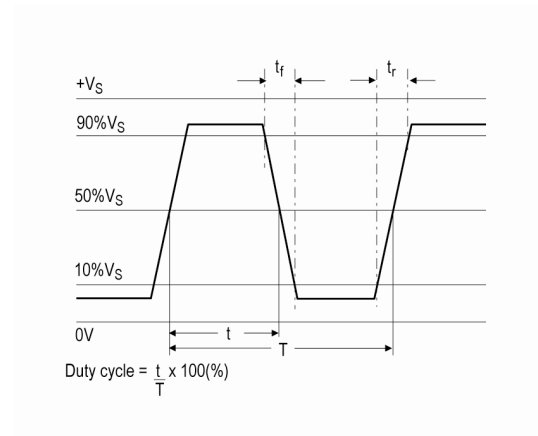
Product Catalog:

www.we-online.com/products

Test Circuit



Waveform



CONTACT INFORMATION:

Würth Elektronik eiSos GmbH & Co. KG
Max-Eyth-Str. 1, 74638 Waldenburg, Germany
Tel: +49(0) 7942 945-0

Email: eiSos@we-online.de
Web: www.we-online.com