

Description

- Suitable for real time clock applications
32.768kHz output crystal oscillators
Ceramic package with a seam sealed metal lid, hermetically sealed
- Model CFPS-107
- Model Issue number 6

Frequency Parameters

- Frequency 32.7680kHz
- Frequency Stability ± 30.00 ppm
- Operating Temperature Range -40.00 to 85.00 °C
- Ageing ± 3 ppm max per year

Electrical Parameters

- Supply Voltage $1.8V \pm 5\%$
- Current Draw 1.500 mA max

Output Details

- Output Compatibility CMOS
- Drive Capability 15 pF max
- Rise and Fall Time 50.0 ns 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: 35 ms max
 2 ms typ to 90% of final amplitude (under ideal conditions @ 25 °C)
- Standby Current: 10 µA max, 1.35 µA typ @ 25 °C

Environmental Parameters

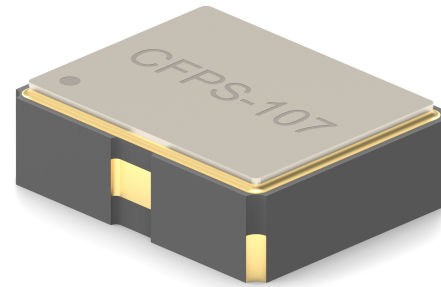
- Storage Temperature Range: -55 to 125 °C
- Shock: MIL-STD-883F, Method 2002.4: $1500G$, 0.5 ms, 3 times in each of 3 mutually perpendicular planes.
- Vibration: MIL-STD-883F, Method 2007.3: $20G$ (20 Hz- 2000 Hz), 1.52 mm amplitude

Manufacturing Details

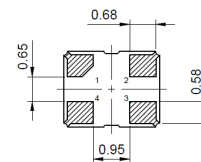
- RoHS Terminations NiAu
- RoHS Reflow Temp 260 degC 10s

Compliance

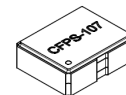
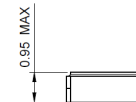
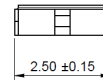
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable



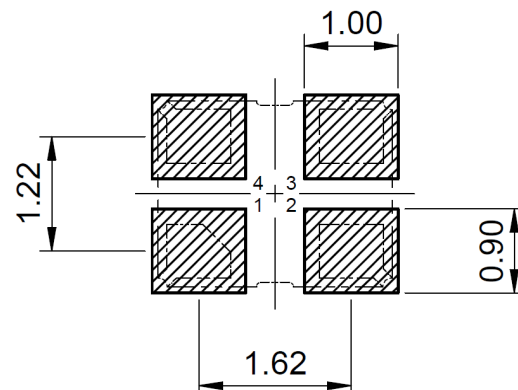
Outline (mm)



- Pad Connections
1. Tristate
 2. GND
 3. Output
 4. +Vs



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

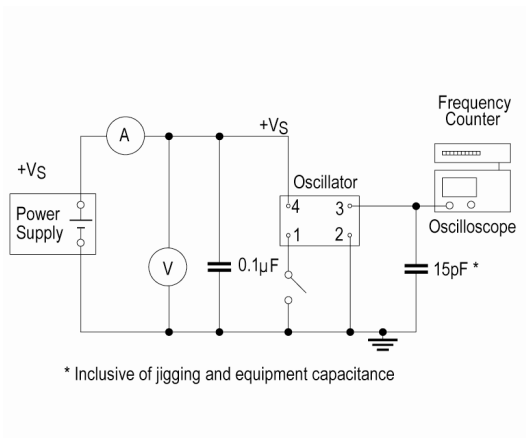
Toolbox:

www.we-online.com/toolbox

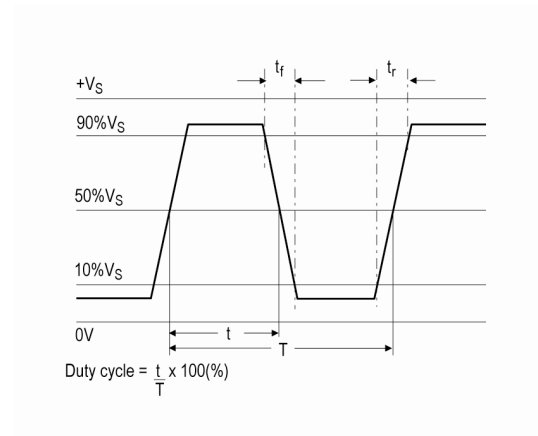
Product Catalog:

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