


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 4

Frequency Parameters

- Frequency 32.7680kHz
- Frequency Stability ±50.00ppm
- Operating Temperature Range -40.00 to 85.00°C
- Ageing ±3ppm max per year

Electrical Parameters

- Supply Voltage 3.3V ±5%
- Current Draw 3.500mA

Output Details

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

Manufacturing Details

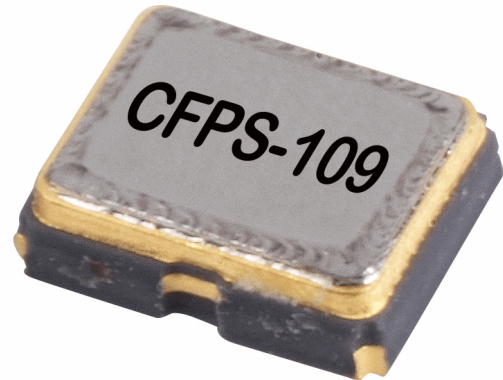
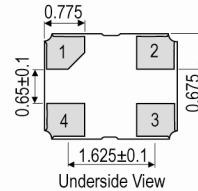
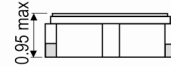
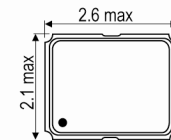
- RoHS Terminations NiAu
- RoHS Reflow Temp 260degC 10s

Compliance

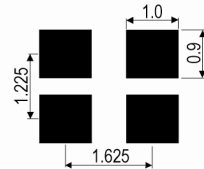
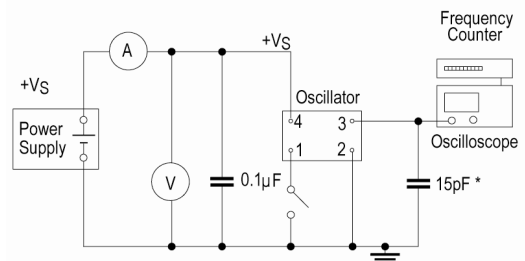
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: **Cutt** In tape, cut from a reel
- Pack Size: **100**
- *Alternative packing option available*


Outline (mm)


- Pad Connections**
1. Enable/Disable
 2. GND
 3. Output
 4. +Vs

Solder Pad Layout

Test Circuit


* Inclusive of jigging and equipment capacitance

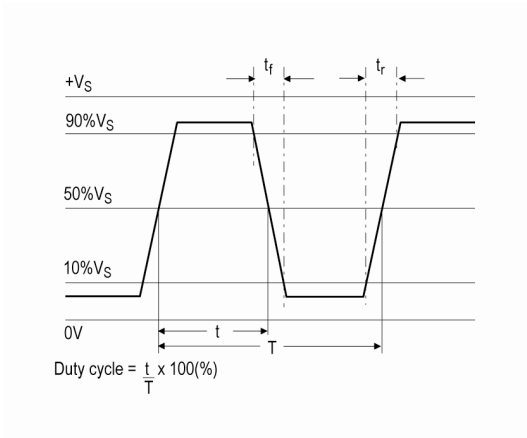
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Wave Form



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