



Description

- Low phase noise crystal oscillator
Ceramic package with a seam sealed metal lid, hermetically sealed
- Model CFPS-112
- Model Issue number 4

Frequency Parameters

- Frequency 27.0MHz
- Frequency Stability $\pm 50.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Ageing $\pm 5\text{ppm}$ max per year

Electrical Parameters

- Supply Voltage $1.8\text{V} \pm 5\%$
- Current Draw 3.000mA

Output Details

- Output Compatibility CMOS
- Drive Capability 15pF max
- Rise and Fall Time 10.0ns max
- Duty Cycle $45/55\%$
- Logic '1' ($>80\%V_S$) to pad 1 enables oscillator output
Logic '0' ($<20\%V_S$) 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

Noise Parameters

- Phase Noise typical figures (dBc/Hz):

Frequency	10Hz	100Hz	1kHz	10kHz	100kHz
27MHz	-75	-111	-146	-155	-157
40MHz	-80	-116	-145	-157	-159

Environmental Parameters

- Drop: 100cm drop (3 times) onto hard wooden board
- Vibration: 10Hz-36Hz, 1.5mm amplitude, 36Hz-55Hz, 4G sweep time 1min/oct, 2hrs in 3 mutually perpendicular planes
- Storage Temperature Range: -55 to 100°C

Compliance

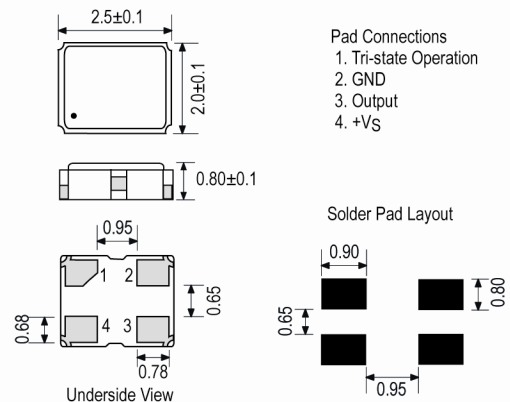
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

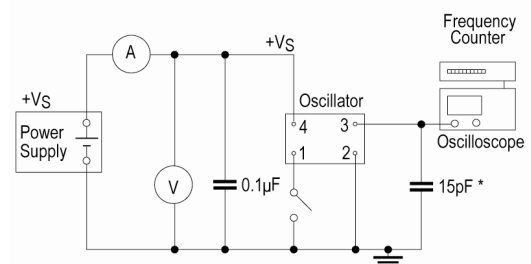
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 1,000
- Alternative packing option available



Outline (mm)



Test Circuit



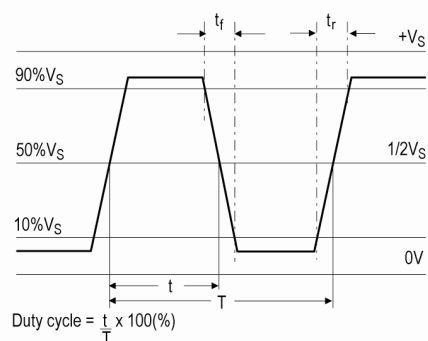
* Inclusive of jigging and equipment capacitance

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Wave Form

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