Crystal Clock Oscillator Specification
CFPS-55

ISSUE 5; June 2016

Description

- A 3V standard 2.5 x 2 crystal oscillator in a ceramic package with a hermetically seam sealed metal lid
  For a low phase noise version of this package please see our CFPS-114 series

Frequency Parameters

Frequency	750.0kHz to 50.0MHz
Frequency Stability	±30.00ppm to ±100.00ppm
Ageing	±3ppm max per year

Electrical Parameters

Supply Voltage	3.0V ±5%

Operating Temperature Ranges

- -20 to 70°C
- -40 to 85°C

Output Details

Output Compatability	CMOS
Drive Capability	15pF max

- Tri-State Operation:
  Logic '1' (>80%VS) to pad 1 enables oscillator output
  Logic '0' (<20% VS) 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 100°C
- 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

Ordering Information

- Frequency*
  Model*
  Output
  Frequency Stability*
  Operating Temperature Range*
  Supply Voltage
  (*minimum required)
- Example
  10.0MHz CFPS-55
  CMOS ±50ppm -20 to 70C 3.0V

Compliance

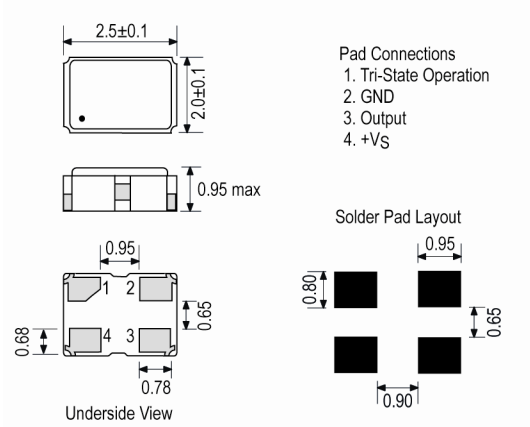
RoHS Status (2011/65/EU)	Compliant
REACh Status	Compliant
MSL Rating (JDEC-STD-033):	Not Applicable

Packaging Details

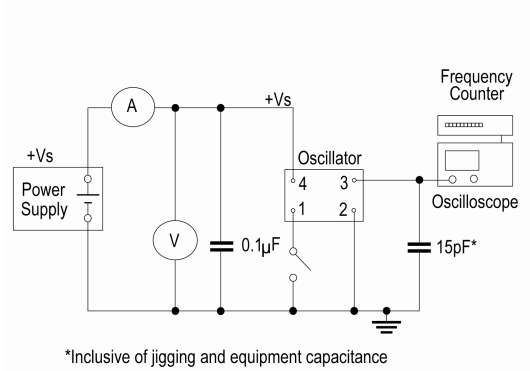
- Pack Style: Reel — Tape & reel in accordance with EIA-481-D
  Pack Size: 1,000
- Pack Style: Cutt — In tape, cut from a reel
  Pack Size: 1



Outline (mm)



Test Circuit

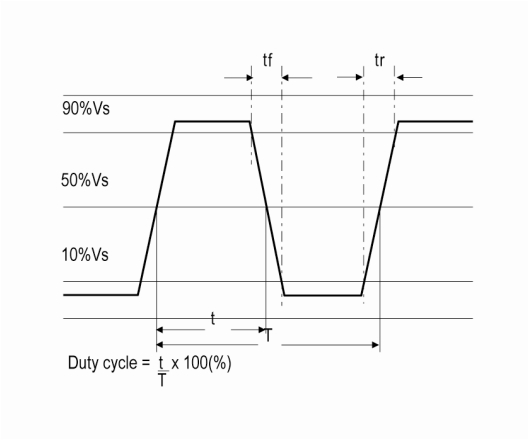


*Inclusive of jigging and equipment capacitance

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Wave Form



Electrical Specification - maximum limiting values 3.0V ±5%

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
750.00kHz	19.999999MHz	-20 to 70	±30.0	5.5	10	45/55%
		-40 to 85	±30.0	5.5	10	45/55%
20.0MHz	39.999999MHz	-20 to 70	±30.0	6.5	10	45/55%
		-40 to 85	±30.0	6.5	10	45/55%
40.0MHz	50.0MHz	-20 to 70	±30.0	7.5	10	45/55%
		-40 to 85	±30.0	7.5	10	45/55%

This document was correct at the time of printing; please contact your local sales office for the latest version.
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