Crystal Clock Oscillator Specification

CFPS-112

ISSUE 4; April 2016

Description

- Low phase noise crystal oscillator
  Ceramic package with a seam sealed metal lid, hermetically sealed
  For standard 2.5 x 2 package oscillators please see our CFPS-53, CFPS-54, CFPS-55 and CFPS-56 series



Frequency Parameters

Frequency	26.0MHz to 44.0MHz
Frequency Stability	±30.00ppm to ±100.00ppm
Ageing	±5ppm max per year

Electrical Parameters

Supply Voltage	1.8V ±5%

Operating Temperature Ranges

- -20 to 70°C
- -40 to 85°C

Output Details

Output Compatability	CMOS
Drive Capability	15pF max

- 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

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

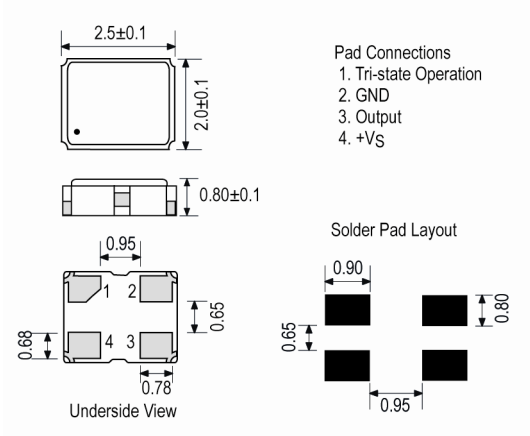
Ordering Information

- Frequency*
  Model*
  Output
  Frequency Stability*
  Operating Temperature Range*
  Supply Voltage
- Example
  30.0MHz CFPS-112
  CMOS ±50ppm –20 to 70C 1.8V

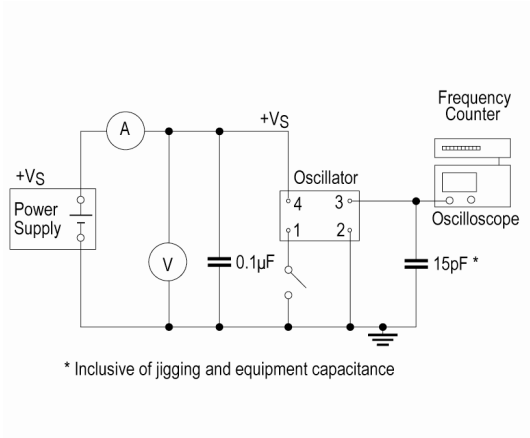
Compliance

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

Outline (mm)



Test Circuit



* Inclusive of jigging and equipment capacitance

Sales Office Contact Details:

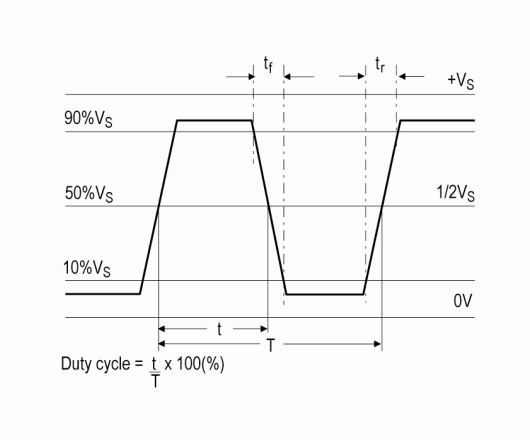
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Packaging Details

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

Wave Form



Electrical Specification - maximum limiting values 1.8V ±5%

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
26.0MHz	44.0MHz	-20 to 70	±30.0	3	10	45/55%
		-40 to 85	±30.0	3	10	45/55%

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