

ISSUE 4; October 2015

### Description

- Low phase noise crystal oscillator  
Ceramic package with a seam sealed metal lid, hermetically sealed



### Frequency Parameters

- Frequency: 26.0MHz to 44.0MHz
- Frequency Stability:  $\pm 30.00\text{ppm}$  to  $\pm 100.00\text{ppm}$
- Ageing:  $\pm 5\text{ppm}$  max per year

### Electrical Parameters

- Supply Voltage: 3.0V  $\pm 5\%$

### Operating Temperature Ranges

- 20 to 70°C
- 40 to 85°C

### Output Details

- Output Compatibility: CMOS
- Drive Capability: 15pF max
- 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

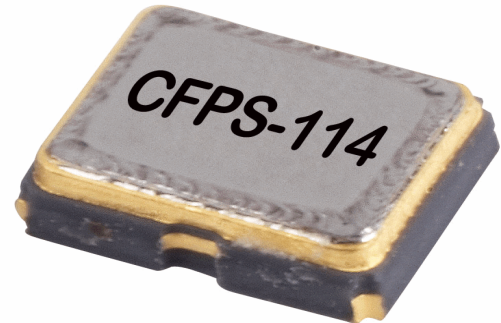
- Drop: 100cm drop (3 times) onto hard wooden board
- Vibration: 10Hz-36Hz, 1.5mm amplitude, 36Hz-55Hz, 4G sweep time 1min/oct, 2hrs in 3 mutually perpendicular planes
- Storage Temperature Range: -55 to 100°C

### Ordering Information

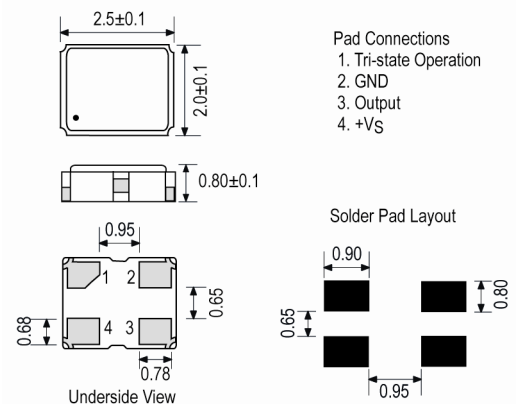
- Frequency\*
- Model\*
- Output
- Frequency Stability\*
- Operating Temperature Range\*
- Supply Voltage
- Example  
30.0MHz CFPS-114  
CMOS  $\pm 50\text{ppm}$  -20 to 70C 3.0V

### Compliance

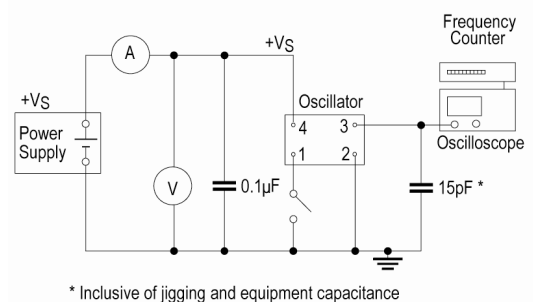
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable



### Outline (mm)



### Test Circuit



### Sales Office Contact Details:

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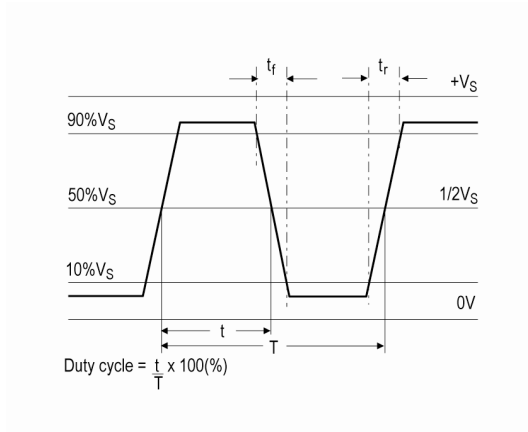
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**Packaging Details**

- 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
- Pack Style: Bulk      Loose in bulk pack  
   Pack Size: 100

**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	%
26.0MHz	44.0MHz	-20 to 70	±30.0	6.5	10	45/55
		-40 to 85	±30.0	6.5	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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