

ISSUE 12; October 2015

### Description

- Standard 7 x 5mm, 2.5V surface mount oscillator in a ceramic package, with a hermetically sealed metal lid



### Frequency Parameters

- Frequency: 500.0kHz to 156.0MHz
- Frequency Stability:  $\pm 25.00\text{ppm}$  to  $\pm 100.00\text{ppm}$

### Electrical Parameters

- Supply Voltage: 2.5V  $\pm 5\%$

### Operating Temperature Ranges

- 10 to 70°C
- 40 to 85°C

### Output Details

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

### Output Control

- Logic '1' ( $>70\%$  VS) to pad 1 enables oscillator output  
Logic '0' ( $<30\%$  VS) to pad 1 disables oscillator output; the oscillator output goes to the high impedance state  
No connection to pad 1 enables oscillator output
- Standby Current: 10 $\mu$ A max

### Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-202, Method 213, Condition E
- Vibration: MIL-STD-883, Method 2007, Condition A

### Ordering Information

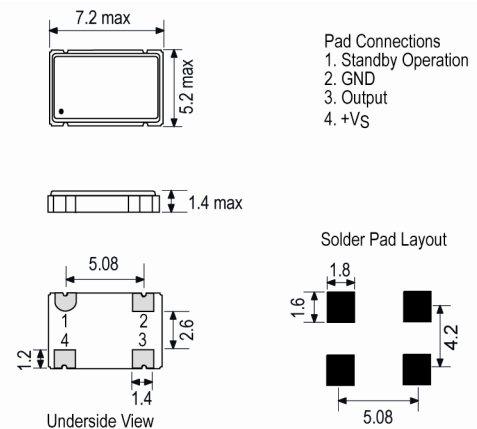
- Frequency\*
- Model\*
- Output
- Frequency Stability\*
- Operating Temperature Range\*
- Supply Voltage (\*minimum required)
- Example  
10.0MHz CFPS-32  
CMOS  $\pm 50\text{ppm}$  -10 to 70C 2.5V

### Compliance

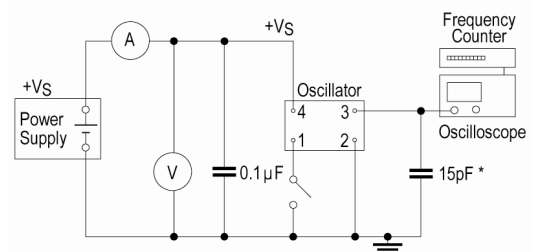
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable



### Outline (mm)



### Test Circuit



\* Inclusive of jigging and equipment capacitance

### Sales Office Contact Details:

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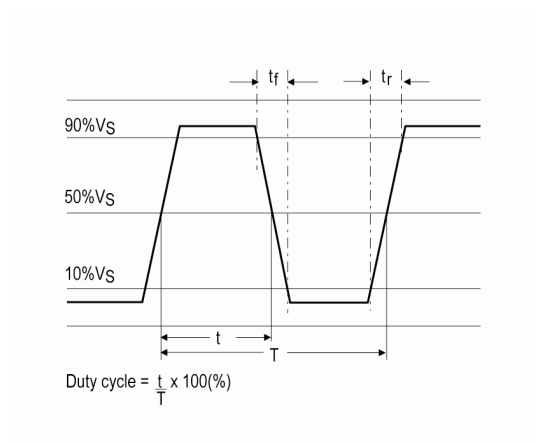
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### Packaging Details

- 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
- Pack Style: Cutt      In tape, cut from a reel  
Pack Size: 1
- Pack Style: R250      Tape & reel in accordance with EIA-481-D  
Pack Size: 250

### Wave Form



### Electrical Specification - maximum limiting values 2.5V ±5%

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
500.0kHz	9.999999MHz	-10 to 70	±25.0	6	5	40/60
		-40 to 85	±25.0	6	5	40/60
10.0MHz	19.999999MHz	-10 to 70	±25.0	8	5	40/60
		-40 to 85	±25.0	8	5	40/60
20.0MHz	31.999999MHz	-10 to 70	±25.0	8	5	40/60
		-40 to 85	±25.0	8	5	40/60
32.0MHz	49.999999MHz	-10 to 70	±25.0	20	5	40/60
		-40 to 85	±25.0	20	5	40/60
50.0MHz	79.999999MHz	-10 to 70	±25.0	20	4	40/60
		-40 to 85	±25.0	20	4	40/60
80.0MHz	99.999999MHz	-10 to 70	±25.0	25	3	40/60
		-40 to 85	±25.0	25	3	40/60
100.0MHz	156.0MHz	-10 to 70	±25.0	30	3	40/60
		-40 to 85	±25.0	30	3	40/60

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