



ISSUE 6; February 2012 - RoHS 2011/65/EU



Description

- Crystal oscillator in an 8-pin DIL metal package, hermetically sealed
- Not recommended for new designs
- See CFPS-303 for alternative product with Standby Operation

Frequency Range

- Frequency 0.5 to 125.0MHz

Supply Voltage

- Voltage 3.3V $\pm 0.33V$

Output Compatibility & Load

- Output Compatibility HCMOS
- Drive Capability 15pF max

Frequency Stabilities

- Frequency Stability $\pm 25\text{ppm}$, $\pm 100\text{ppm}$

Operating Temperature Ranges

- 40 to 85°C
- 0 to 70°C

Environmental Parameters

- Shock: 981m/s², 6ms, 3 times in each of 3 mutually perpendicular planes
- Vibration: 0.76mm displacement, 10Hz-55Hz, 1min in 3 mutually perpendicular planes, duration 2hrs each plane
- Solderability: MIL-STD-202E, Method 208C
- Hermetic Seal: Not to exceed 1x10⁻⁸ mBar litres of Helium leakage
- Terminal Strength: 0.91kg max force perpendicular to top and bottom
- Rapid Change of Temperature over Operating Temperature Range: 10 cycles
- Storage Temperature Range: -55 to 125°C

Ordering Information (*minimum required)

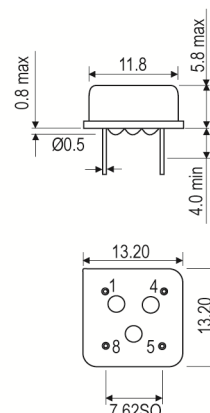
- Frequency*
- Model*
- Output
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Supply Voltage
- (*minimum required)
- Example
- 20.0MHz CFPS-302
- HCMOS $\pm 50\text{ppm}$ 0 to 70C 3.3V

Packing Details

- Pack Style: **Bulk** Loose in bulk pack
- Pack Size 40
- Alternative packing options available

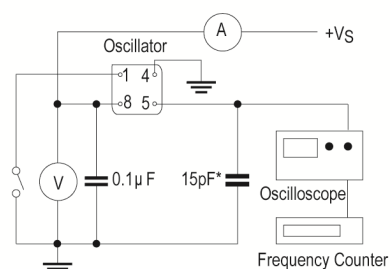


Outline (mm)



Pin Connections
 1. N/C
 4. GND
 5. Output
 8. +Vs

Test Circuit



*Inclusive of jigging and equipment capacitance

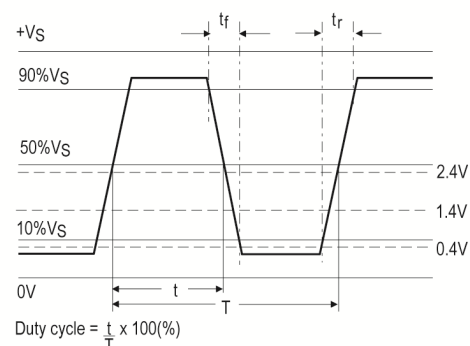
Note: Pin 1 = No connection on non standby option models

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**Output Waveform****Electrical Specification - maximum limiting values 3.3V \pm 0.33V**

Frequency Range	Temp Range	Stability		Current Draw	Rise & Fall (10 to 90%)	Duty Cycle %
		Min	Max			
500.00 to <20.0MHz	0 to 70°C	± 25 ppm	± 100 ppm	10.0mA	10ns	40/60%
	-40 to 85°C	± 25 ppm	± 100 ppm	10.0mA	10ns	40/60%
20.00 to <25.0MHz	0 to 70°C	± 25 ppm	± 100 ppm	20.0mA	10ns	40/60%
	-40 to 85°C	± 25 ppm	± 100 ppm	20.0mA	10ns	40/60%
25.00 to <40.0MHz	0 to 70°C	± 25 ppm	± 100 ppm	20.0mA	6ns	40/60%
	-40 to 85°C	± 25 ppm	± 100 ppm	20.0mA	6ns	40/60%
40.00 to <70.0MHz	0 to 70°C	± 25 ppm	± 100 ppm	25.0mA	6ns	40/60%
	-40 to 85°C	± 25 ppm	± 100 ppm	25.0mA	6ns	40/60%
70.00 to <125.0MHz	0 to 70°C	± 25 ppm	± 100 ppm	30.0mA	3ns	40/60%
	-40 to 85°C	± 25 ppm	± 100 ppm	30.0mA	3ns	40/60%

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

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