



ISSUE 11; January 2012 - RoHS 2011/65/EU



Description

- PLL based, one time only factory programmable for a fast lead time
- Crystal oscillator in a hermetically sealed ceramic package with a metal lid
- See CFPS-72 and CFPS-73 for standard crystal oscillator alternative
- See IQMS-500 series for MEMS oscillator alternative

Frequency Range

- Frequency 1.00 to 150.00MHz

Supply Voltage

- Voltage 5.0V ±0.5V

Output Compatibility & Load

- Output Compatibility CMOS

Maximum Capacitive Load	
CMOS ≤66.0MHz	50pF
CMOS >66.0 to 150.0MHz	25pF

Frequency Stabilities

- Frequency Stability ±25ppm, ±100ppm

Operating Temperature Ranges

- -40 to 85°C
- 0 to 70°C

Output Details

- Logic '1' to pad 1 enables oscillator output
- Logic '0' 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 Parameter

- Jitter pk-pk:
 - 1 to 33MHz 250ps max
 - >33MHz 175ps max
- Jitter pk-pk:
 - 1 to 33MHz 100ps typ
 - >33MHz 75ps typ

Environmental Parameters

- Storage Temperature Range: -55 to 125°C

Ordering Information (*minimum required)

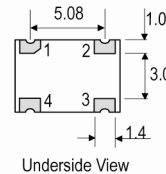
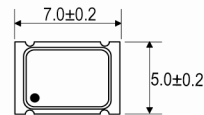
- Frequency*
- Model*
- Output Compatibility
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Supply Voltage
- Example
- 20.0MHz CFPP-72
- CMOS ±50ppm -40 to 85C 5.0V

Packing Details

- Pack Style: **Bulk** Loose in bulk pack
- Pack Size 1

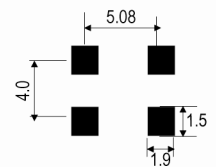


Outline (mm)

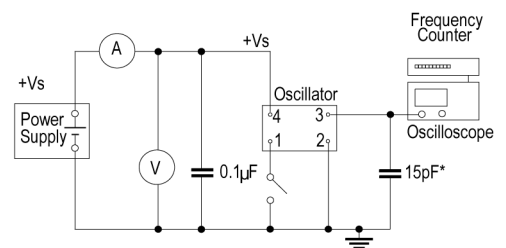


- Pad Connections
1. N/C or Tri-State
 2. GND
 3. Output
 4. +Vs

Solder Pad Layout



Test Circuit



Inclusive of jigging and equipment capacitance

Sales Office Contact Details:

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 Germany: +49 (0)7264 9145-0

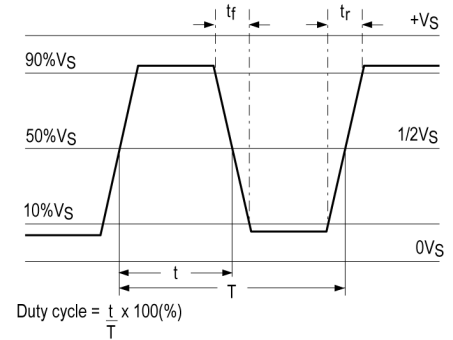
France: Opening 6th March 2012
 USA: +1 (0) 650 798 5047

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 Web: www.iqdfrequencyproducts.com



- Pack Style: **Reel** Tape and reel in accordance with EIA-481-D
- Pack Size 1,000
- Alternative packing options available

Output Waveform



Electrical Specification - maximum limiting values 5.0V ±0.5V

Frequency Range	Temp Range	Stability		Current Draw	Rise & Fall (10 to 90%)	Duty Cycle %
		Min	Max			
1.00 to <40.00MHz	0 to 70°C	±25ppm	±100ppm	45.0mA	4ns	45/55%
	-40 to 85°C	±25ppm	±100ppm	45.0mA	4ns	45/55%
40.00 to <66.00MHz	0 to 70°C	±25ppm	±100ppm	45.0mA	4ns	45/55%
	-40 to 85°C	±25ppm	±100ppm	45.0mA	4ns	45/55%
66.00 to <100.00MHz	0 to 70°C	±25ppm	±100ppm	45.0mA	4ns	40/60%
	-40 to 85°C	±25ppm	±100ppm	45.0mA	4ns	40/60%
100.00 to <133.00MHz	0 to 70°C	±25ppm	±100ppm	45.0mA	4ns	40/60%
	-40 to 85°C	±25ppm	±100ppm	45.0mA	4ns	40/60%
133.00 to <150.00MHz	0 to 70°C	±25ppm	±100ppm	60.0mA	4ns	40/60%
	-40 to 85°C	±25ppm	±100ppm	60.0mA	4ns	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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