

ISSUE 11; April 2016

### Description

- PLL based, one time only factory programmable (for a fast lead time) crystal oscillator in a hermetically sealed 8-pin DIL metal package.
- This model is not approved for on-board avionics applications; in such instances our 'CFPP-23 AVIATION' version should be specified.
- See IQXO-825 and IQXO-826 for our standard crystal oscillator alternatives.

### Frequency Parameters

- Frequency 1.0MHz to 150.0MHz
- Frequency Stability  $\pm 25.00\text{ppm}$  to  $\pm 100.00\text{ppm}$
- Ageing  $\pm 5\text{ppm}$  max in 1st year @ 25°C

### Electrical Parameters

- Supply Voltage 5.0V  $\pm 0.5\text{V}$

### Operating Temperature Ranges

- 0 to 70°C
- 40 to 85°C

### Output Details

- Output Compatibility CMOS
- Logic '1' to pin 1 enables oscillator output  
Logic '0' to pin 1 disables oscillator output; when disabled the oscillator output goes to the high impedance state  
No connection to pin 1 enables oscillator output

Drive Capability	
0.0MHz to 66.0MHz	50pF
66.0MHz to 150.0MHz	25pF

### Noise Parameters

- Jitter pk-pk (typical)
 

1 to 33MHz	>33MHz
100ps	75ps
- Jitter pk-pk (max)
 

1 to 33MHz	>33MHz
250ps	175ps

### Environmental Parameters

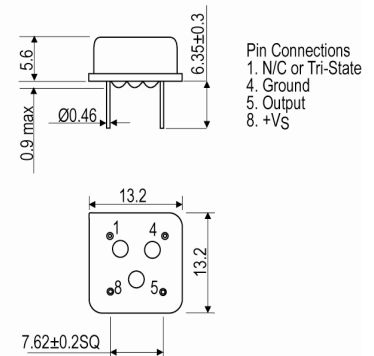
- Storage Temperature Range: -55 to 125°C

### Ordering Information

- Frequency\*
- Model\*
- Output Compatibility
- Frequency Stability (over operating temperature range)\*
- Operating Temperature Range\*
- Supply Voltage
- Example  
20.00MHz CFPP-23  
CMOS  $\pm 50\text{ppm}$  -40 to 85C 5.0V



Outline (mm)



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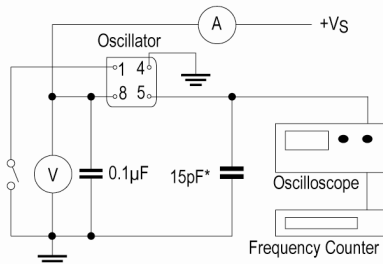
### Compliance

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

### Packaging Details

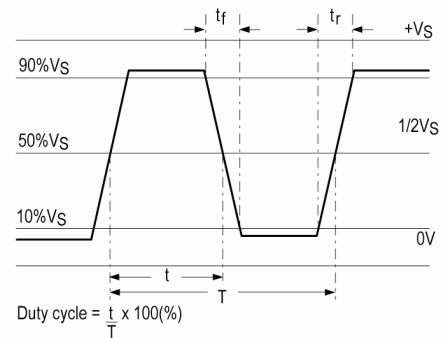
- Pack Style: Bulk      Loose in bulk pack
- Pack Size: 1

### Test Circuit



\*Inclusive of jigging and equipment capacitance

### Wave Form



### Electrical Specification - maximum limiting values 5.0V ±0.5V

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
1.0MHz	40.0MHz	0 to 70	±25.0	45	4	45/55%
		-40 to 85	±25.0	45	4	45/55%
40.000001MHz	66.0MHz	0 to 70	±25.0	45	4	45/55%
		-40 to 85	±25.0	45	4	45/55%
66.000001MHz	100.0MHz	0 to 70	±25.0	45	4	40/60%
		-40 to 85	±25.0	45	4	40/60%
100.000001MHz	133.0MHz	0 to 70	±25.0	45	4	40/60%
		-40 to 85	±25.0	45	4	40/60%
133.0MHz	150.0MHz	-40 to 85	±50.0	60	4	40/60%
133.000001MHz	150.0MHz	0 to 70	±25.0	60	4	40/60%
		-40 to 85	±25.0	60	4	40/60%

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