

ISSUE 1; August 2016

Description

- Surface mount oscillator in a ceramic package, with a hermetically sealed metal lid. Suitable for Industrial applications qualified to AEC-Q200.



Frequency Parameters

- Frequency: 4.0MHz to 110.0MHz
- Frequency Stability: $\pm 50.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Ageing: $\pm 5\text{ppm}$ max per year

Electrical Parameters

- Supply Voltage: $3.3\text{V} \pm 10\%$

Operating Temperature Ranges

- 0 to 70°C
- -40 to 85°C

Output Details

- Output Compatibility: HCMOS
- Drive Capability: 15pF

Output Control

- Tri-State Operation:
Logic '1' ($>90\%V_s$) to pad 1 enables oscillator output.
Logic '0' ($<10\%V_s$) 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.

Environmental Parameters

- Storage Temperature Range: -45 to 130°C
- Qualified to AEC-Q200.

Ordering Information

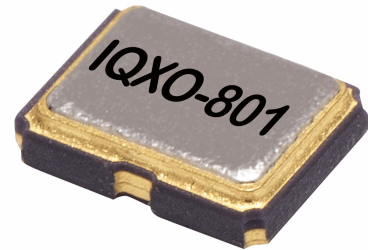
- Frequency*
- Model*
- Output Compatibility
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Supply Voltage
- (*minimum required)
- Example
10.0MHz IQXO-801
HCMOS $\pm 100\text{ppm}$ -40 to 85°C 3.3V

Compliance

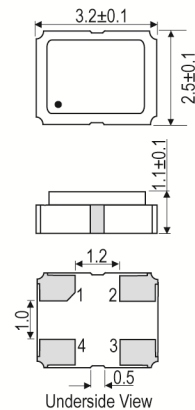
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481-D
- Pack Size: 3,000

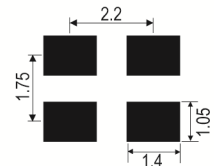


Outline (mm)

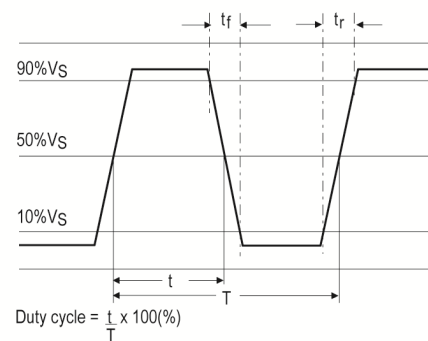


Pad Connections
1. Tri-State Operation
2. GND
3. Output
4. $+V_s$

Solder Pad Layout



Wave Form



Sales Office Contact Details:

UK: +44 (0)1460 270200
Germany: 0800 1808 443

France: 0800 901 383
USA: +1.760.318.2824

Email: info@iqdfrequencyproducts.com
Web: www.iqdfrequencyproducts.com

Electrical Specification - maximum limiting values 3.3V $\pm 10\%$

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
4.0MHz	9.999999MHz	0 to 70 -40 to 85	± 50.0 ± 50.0	7 7	10 10	40/60% 40/60%
10.0MHz	19.999999MHz	0 to 70 -40 to 85	± 50.0 ± 50.0	7 7	10 10	40/60% 40/60%
20.0MHz	29.999999MHz	0 to 70 -40 to 85	± 50.0 ± 50.0	10 10	10 10	40/60% 40/60%
30.0MHz	49.999999MHz	0 to 70 -40 to 85	± 50.0 ± 50.0	15 15	10 10	40/60% 40/60%
50.0MHz	79.999999MHz	0 to 70 -40 to 85	± 50.0 ± 50.0	20 20	8 8	40/60% 40/60%
80.0MHz	99.999999MHz	0 to 70 -40 to 85	± 50.0 ± 50.0	25 25	5 5	40/60% 40/60%
100.0MHz	110.0MHz	0 to 70 -40 to 85	± 50.0 ± 50.0	40 40	4 4	40/60% 40/60%

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