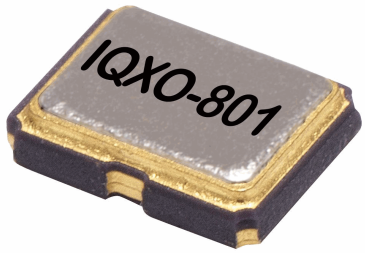
Crystal Clock Oscillator Specification
IQXO-801

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	±50.00ppm to ±100.00ppm
Ageing	±5ppm max per year

Electrical Parameters

Supply Voltage	3.3V ±10%

Operating Temperature Ranges

- 0 to 70°C
- -40 to 85°C

Output Details

Output Compatability	HCMOS
Drive Capability	15pF

Output Control

- Tri-State Operation:
  Logic '1' (>90%Vs) to pad 1 enables oscillator output.
  Logic '0' (<10%Vs) 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 ±100ppm –40 to 85C 3.3V

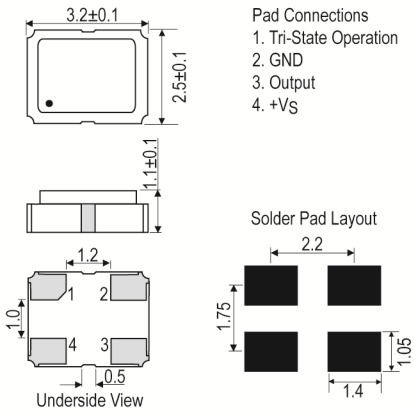
Compliance

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

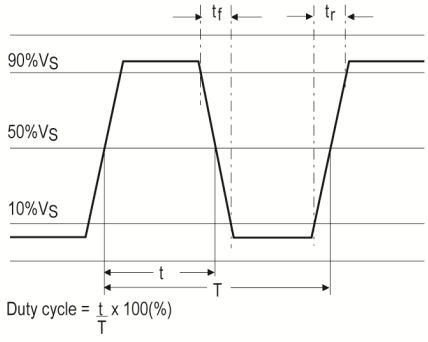
Packaging Details

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

Outline (mm)



Wave Form



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Electrical Specification - maximum limiting values 3.3V ±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	±50.0	7	10	40/60%
		-40 to 85	±50.0	7	10	40/60%
10.0MHz	19.999999MHz	0 to 70	±50.0	7	10	40/60%
		-40 to 85	±50.0	7	10	40/60%
20.0MHz	29.999999MHz	0 to 70	±50.0	10	10	40/60%
		-40 to 85	±50.0	10	10	40/60%
30.0MHz	49.999999MHz	0 to 70	±50.0	15	10	40/60%
		-40 to 85	±50.0	15	10	40/60%
50.0MHz	79.999999MHz	0 to 70	±50.0	20	8	40/60%
		-40 to 85	±50.0	20	8	40/60%
80.0MHz	99.999999MHz	0 to 70	±50.0	25	5	40/60%
		-40 to 85	±50.0	25	5	40/60%
100.0MHz	110.0MHz	0 to 70	±50.0	40	4	40/60%
		-40 to 85	±50.0	40	4	40/60%

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