

ISSUE 1; May 2015

Description

- Simple package crystal oscillator in a hermetically sealed 14-pin DIL package

Frequency Parameters

- Frequency 1.0MHz to 166.0MHz
- Frequency Stability $\pm 25.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Ageing $\pm 5\text{ppm}$ max in 1st yr @ 25°C

Electrical Parameters

- Supply Voltage 3.3V $\pm 10\%$

Operating Temperature Ranges

- 10 to 70°C
- 40 to 85°C

Output Details

- Output Compatibility HCMOS

Drive Capability	
1.0MHz to 40.0MHz	50pF
40.0MHz to 80.0MHz	30pF
80.0MHz to 166.0MHz	15pF

Output Control

- Start Up Time: 10ms max

Output Levels

- VoH: 90% Vs min
- VoL: 10% Vs max

Noise Parameters

- Phase Jitter (12kHz-20MHz): 1ps rms max

Environmental Parameters

- Shock: 1500G, 0.5ms, 5 times in each of 6 directions, along 3 mutually perpendicular planes
- Vibration: 20G (20Hz-2000Hz), 1.5mm amplitude, cross-over frequency 80Hz, in 3 mutually perpendicular planes
- Storage Temperature Range: -55 to 125°C

Ordering Information

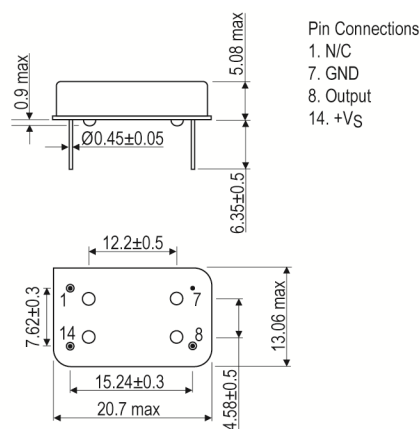
- Frequency*
- Model*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Supply Voltage
- (*minimum required)
- Example
- 20.0MHz IQXO-822
- HCMOS $\pm 50\text{ppm}$ -40 to 85C 3.3V

Compliance

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



Outline (mm)



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Packaging Details

- Pack Style: Bulk Loose in Bulk Pack
- Pack Size: 25

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	%
1.0MHz	19.999999MHz	-10 to 70	± 25.0	10	6	45/55
		-40 to 85	± 25.0	10	6	45/55
20.0MHz	49.999999MHz	-10 to 70	± 25.0	30	6	45/55
		-40 to 85	± 25.0	30	6	45/55
50.0MHz	79.999999MHz	-10 to 70	± 25.0	40	5	45/55
		-40 to 85	± 25.0	40	5	45/55
80.0MHz	124.999999MHz	-10 to 70	± 25.0	50	4	45/55
		-40 to 85	± 25.0	50	4	45/55
125.0MHz	166.0MHz	-10 to 70	± 25.0	60	3	45/55
		-40 to 85	± 25.0	60	3	45/55

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