

ISSUE 1; March 2016

Description

- Simple package crystal oscillator in a hermetically sealed 8-pin DIL package

Frequency Parameters

- Frequency: 1.0MHz to 100.0MHz
- 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: 5.0V $\pm 10\%$

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 100.0MHz	15pF

Output Control

- Start Up Time: 10ms max

Output Levels

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

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

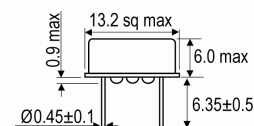
- Frequency*
- Model*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Supply Voltage
- (*minimum required)
- Example
- 20.0MHz IQXO-825
- HCMOS $\pm 50\text{ppm}$ -40 to 85C 5V

Compliance

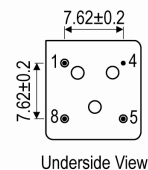
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable



Outline (mm)



Pin Connections
 1. N/C
 4. GND
 5. Output
 8. +VS



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Packaging Details

- Pack Style: Bulk Loose in Bulk Pack
Pack Size: 40

Electrical Specification - maximum limiting values 5.0V $\pm$ 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 -40 to 85	$\pm$ 25.0 $\pm$ 25.0	20 20	6 6	45/55% 45/55%
20.0MHz	49.999999MHz	-10 to 70 -40 to 85	$\pm$ 25.0 $\pm$ 25.0	40 40	5 5	45/55% 45/55%
50.0MHz	79.999999MHz	-10 to 70 -40 to 85	$\pm$ 25.0 $\pm$ 25.0	50 50	4 4	45/55% 45/55%
80.0MHz	100.0MHz	-10 to 70 -40 to 85	$\pm$ 25.0 $\pm$ 25.0	70 70	4 4	45/55% 45/55%

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