



ISSUE 1; September 2014 - RoHS 2011/65/EU



Description

- Simple package crystal oscillator in a hermetically sealed 8-pin DIL package with tri-state function

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

- Tri-state Operation:
Logic '1' to pin 1 enables oscillator output
Logic '0' to pin 1 disables oscillator output, the oscillator output goes to a high impedance state
No connection to pin 1 enables oscillator output
- 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

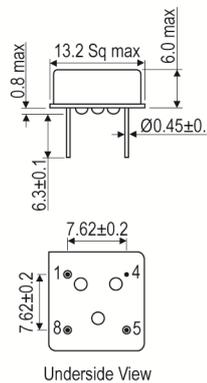
- Shock: 1500G, 0.5ms, 5 times in each of 6 directions, along 3 mutually perpendicular planes
- Vibration: 20G (20Hz-2000Hz), 1.5mm amplitude, cross-over frequency 80Hz, in 3 mutually perpendicular planes
- Storage Temperature Range: -55 to 125°C

Ordering Information

- Frequency*
- Model*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Supply Voltage
(*minimum required)
- Example
20.0MHz IQXO-826
HCMOS $\pm 50\text{ppm}$ -40 to 85C 5V



Outline (mm)



- Pin Connections
- Tri-State
 - GND
 - Output
 - +Vs

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