

Customer Part:

Description

- Simple package crystal oscillator (SPXO) in a seam sealed ceramic package with a metal lid and operates over a wide supply voltage range of 1.62V to 3.63V
- Model IQXO-951 2016
- Model Issue number 3
- Note: Operating temperature range -40 to 125°C is intended for industrial use and not for safety critical applications such as automotive. Please contact IQD for alternative options.

Frequency Parameters

- Frequency 24.0MHz
- Frequency Stability $\pm 25.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Ageing $\pm 3\text{ppm}$ max in 1st year @ 25°C
- Frequency Stability: inclusive of frequency tolerance at 25°C $\pm 3^\circ\text{C}$ and over the operating temperature range.

Electrical Parameters

- Current Draw (no load) 7.000mA
- Supply Voltage: 1.62V min to 3.63V max

Output Details

- Output Compatibility CMOS
- Drive Capability 15pF max
- Rise and Fall Time 5.0ns max
- Duty Cycle 45/55%

Output Control

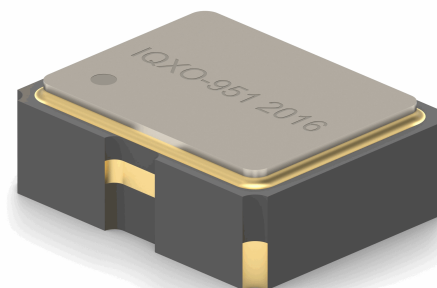
- Standby Operation:
Logic '1' (>70% VS) to pad 1 enables oscillator output
Logic '0' (<30% VS) to pad 1 disables oscillator output; when disabled the oscillator output goes to the high impedance state
No connection to pad 1 enables oscillator output.
- Start-up Time: 10ms max
0.3ms typ to 90% of final amplitude (under ideal conditions @ 25°C)
- Standby Current:
1.5 μA typ @ 25°C
10 μA max over operating temp range -40 to 85°C
20 μA max over operating temp range 85 to 125°C

Output Levels

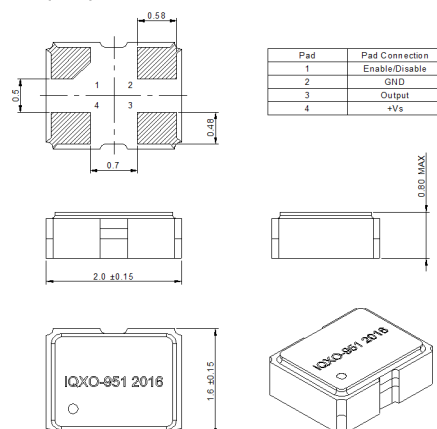
- Output Voltage Levels:
Output High (VoH): $V_s - 0.4\text{V}$ min
Output Low (VoL): 0.4V max

Noise Parameters

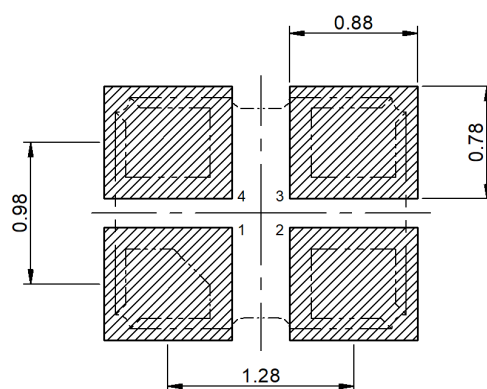
- RMS Phase Jitter (12kHz to 20MHz): 368fs typ @ 25MHz
- Phase Noise (typ @ 25MHz and @ 25°C):
-90dBc/Hz @ 10Hz
-118dBc/Hz @ 100Hz
-132dBc/Hz @ 1kHz
-145dBc/Hz @ 10kHz
-151dBc/Hz @ 100kHz
-154dBc/Hz @ 1MHz
-155dBc/Hz @ 5MHz



Outline (mm)



Recommended Solder Pad Layout



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