

IQD Frequency Products

Incorporating IQD FOQ GmbH

Oscillator Specification

Part No. + Packaging: LFSPX0056223REEL

Description

 Standard 2 x 1.6 crystal oscillator in a ceramic package with a seam sealed metal lid, hermetically sealed 	
 Model 	IQXO-542
 Model Issue number 	2
Frequency Parameters	
 Frequency 	50.0MHz
 Frequency Tolerance @ 25°C 	INCLUSIVE
 Frequency Stability 	±50.00ppm
 Operating Temperature Range 	-40.00 to 85.00°C
 Ageing 	±5ppm

Frequency Stability

 Inclusive of tolerance, supply voltage and load variations over the operating temperature range

Electrical Parameters

Supply Voltage 1.8V
Supply Voltage Tolerance ±10%
Current Draw 6mA max
Standby Current: 10µA max (pad 1 at logic '0')

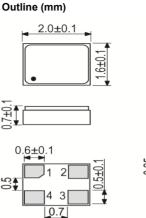
Output Details

Output Compatability CMOS

15pF max

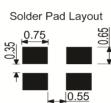
5.0ns max

45/55%



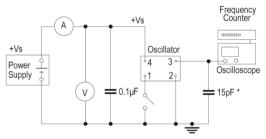


- Pad Connections
- 1. Standby Operation
- 2. GND
- 3. Output
- 4. +Vs



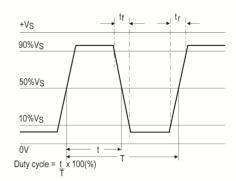
Test Circuit

Underside View



* Inclusive of jigging and equipment capacitance

Wave Form



Environmental Parameters

Rise and Fall time (10% - 90%)

 Vibration: IEC 60068-2-6: 1.5mm amplitude, 10Hz-55Hz, 1min in 3 mutually perpendicular planes, duration 2hrs each plane (total 6hrs)

■ Standby Operation: Logic '1' (≥70%VS) to pad 1 enables oscillator

the oscillator output goes to the high impedance state No connection to pad 1 enables oscillator output

Logic '0' (≤30%VS) to pad 1 disables oscillator output; when disabled

- Storage Temperature Range: –40 to 85°C
- Impact: Weight of 10g dropped to centre of part from a height of 6mm

Compliance

Output Load

Duty Cycle

output

Output Control

RoHS StatusREACh Status	Compliant Compliant
Packaging	
Pack Type: Reel	Tape and reel in accordance with EIA-481-D
Pack Size	3,000
 Alternative packing option available 	

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