

IQD Frequency Products

Incorporating IQD FOQ GmbH

Oscillator Specification

Part No. + Packaging: LFSPX0056218REEL

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 	25.0MHz	
 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

Output Load

Duty Cycle

output

Compliance

RoHS Status

Packaging Pack Type: Reel

REACh Status

Output Control

Rise and Fall time (10% - 90%)

Environmental Parameters

Storage Temperature Range: -40 to 85°C

 Supply Voltage 1.8V Supply Voltage Tolerance ±10% Current Draw 5mA max Standby Current: 10µA max (pad 1 at logic '0') **Output Details** Output Compatability CMOS

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

Vibration: IEC 60068-2-6: 1.5mm amplitude, 10Hz-55Hz, 1min in 3

mutually perpendicular planes, duration 2hrs each plane (total 6hrs)

Impact: Weight of 10g dropped to centre of part from a height of 6mm

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

15pF max

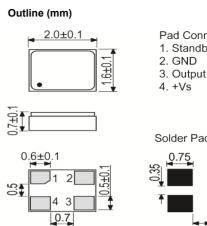
5.0ns max

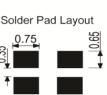
45/55%

Compliant

Compliant

EIA-481-D





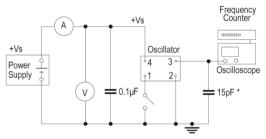
|0.55|

Pad Connections 1. Standby Operation

2. GND

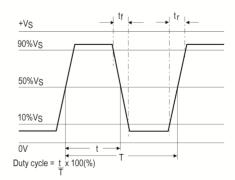
Test Circuit

Underside View



* Inclusive of jigging and equipment capacitance

Wave Form



Pack Size	3,000
Alternative packing option available	
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