

IQD Frequency Products

Incorporating IQD FOQ GmbH

Oscillator Specification

Part No. + Packaging: LFSPX0056235REEL

Description

 Standard 2 x 1.6 crystal oscillator in a ceramic package with a seam sealed metal lid, hermetically sealed 		
 Model 	IQXO-541	
Model Issue number	2	
Frequency Parameters		
 Frequency 	48.0MHz	
 Frequency Tolerance @ 25°C 	INCLUSIVE	
 Frequency Stability 	±50.00ppm	
 Operating Temperature Range 	-40.00 to 85.00°C	
 Ageing 	±5ppm	
Eregueney Stebility		

Frequency Stability

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

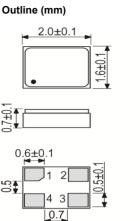
Electrical Parameters

 Supply Voltage 	2.5V	
 Supply Voltage Tolerance 	±10%	
 Current Draw 	7mA max	
 Standby Current: 10µA max (pad 1 at logic '0') 		
Output Details		
 Output Compatability 	CMOS	

15pF max

5.0ns max

45/55%

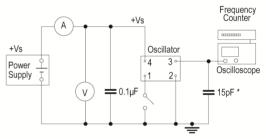




- Pad Connections
- 1. Standby Operation
- 2. GND
- 3. Output
- 4. +Vs
- Solder Pad Layout

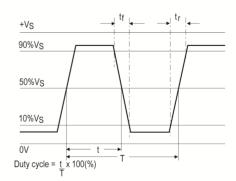
Test Circuit

Underside View



* Inclusive of jigging and equipment capacitance

Wave Form



Output Control

Output Load

Duty Cycle

- 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

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

Compliance

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 	

This document is correct at the time of printing; please contact your local office for the latest version.

Sales Office Contact Details: UK: +44 (0)1460 270200 Germany: +49 (0)7264 9145-0

France: +33 (0)5 34 50 91 18 USA: +1 (0)408.273.4530 Email: info@iqdfrequencyproducts.com Web: www.iqdfrequencyproducts.com