

# **IQD Frequency Products**

Incorporating IQD FOQ GmbH

## **Oscillator Specification**

Part No. + Packaging: LFSPX0056220REEL

### Description

<ul> <li>Standard 2 x 1.6 crystal oscillator in a ceramic package with a seam sealed metal lid, hermetically sealed</li> </ul>		
<ul> <li>Model</li> </ul>	IQXO-542	
Model Issue number	2	
Frequency Parameters		
<ul> <li>Frequency</li> </ul>	27.0MHz	
<ul> <li>Frequency Tolerance @ 25°C</li> </ul>	INCLUSIVE	
<ul> <li>Frequency Stability</li> </ul>	±50.00ppm	
<ul> <li>Operating Temperature Range</li> </ul>	-40.00 to 85.00°C	
<ul> <li>Ageing</li> </ul>	±5ppm	

### Frequency Stability

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

#### Electrical Parameters

Output Load

Duty Cycle

output

**Output Control** 

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

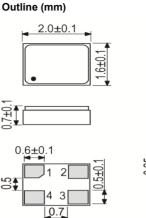
Output Details

Output Compatability CMOS

15pF max

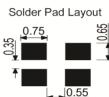
5.0ns max

45/55%



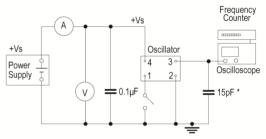


- Pad Connections
- 1. Standby Operation
- 2. GND
- 3. Output 4. +Vs
- +. +VS



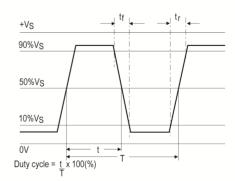
#### **Test Circuit**

Underside View



\* Inclusive of jigging and equipment capacitance

#### Wave Form



Env	ironme	ental F	arame	ters

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

<ul><li>RoHS Status</li><li>REACh Status</li></ul>	Compliant Compliant
Packaging	
Pack Type: Reel	Tape and reel in accordance with EIA-481-D
Pack Size	3,000
<ul> <li>Alternative packing option available</li> </ul>	

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