

## Customer Part:



### Description

- Standard 2 x 1.6mm crystal oscillator in a hermetically sealed ceramic package with a seam sealed metal lid
- Model IQXO-540
- Model Issue number 3

### Frequency Parameters

- Frequency 50.0MHz
- Frequency Stability  $\pm 50.00\text{ppm}$
- Operating Temperature Range  $-40.00$  to  $85.00^\circ\text{C}$
- Ageing  $\pm 5\text{ppm}$  max per year @  $25^\circ\text{C}$

### Electrical Parameters

- Supply Voltage  $3.3\text{V} \pm 10\%$
- Current Draw 10.000mA

### Output Details

- Output Compatibility CMOS
- Drive Capability 15pF max
- Rise and Fall Time 5.0ns max
- Duty Cycle 45/55%
- Start up time: 10ms max.  
0.7ms typ to 90% of final amplitude (under ideal conditions @  $25^\circ\text{C}$ )

### Output Control

- Standby Operation: Logic '1' ( $\geq 70\%V_s$ ) to pad 1 enables oscillator output  
Logic '0' ( $\leq 30\%V_s$ ) 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
- Standby Current: 10 $\mu\text{A}$  max, 1.0 $\mu\text{A}$  typ @  $25^\circ\text{C}$

### Environmental Parameters

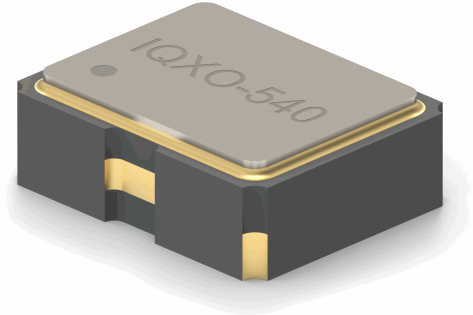
- Impact: Weight of 10G dropped to centre of part from a height of 6mm
- Storage Temperature Range:  $-40$  to  $85^\circ\text{C}$
- Vibration: IEC 60068-2-6: 1.5mm amplitude, 10Hz-55Hz, 1min in 3 mutually perpendicular planes, duration 2hrs each plane (total 6hrs)
- RoHS Terminations
- RoHS Reflow Temp  $250^\circ\text{C}$  max for 10s max

### Compliance

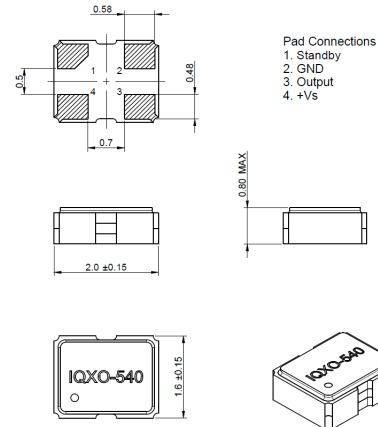
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

### Packaging Details

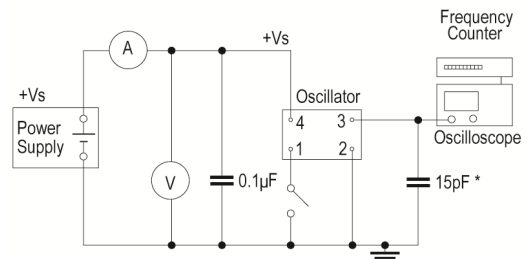
- Pack Style: Cutt In tape, cut from a reel  
Pack Size: 100
- Alternative packing option available



### Outline (mm)



### Test Circuit



\* Inclusive of jigging and equipment capacitance

### Sales Office Contact Details:

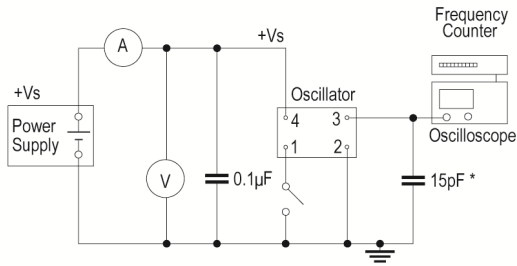
UK: +44 (0)1460 270200  
Germany: 0800 1808 443

France: 0800 901 383  
USA: +1.760.318.2824

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)  
Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)

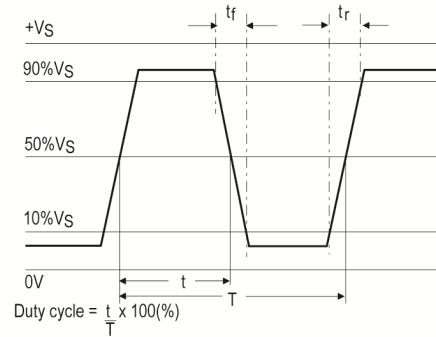
**Customer Part:**

**Test Circuit**



\* Inclusive of jigging and equipment capacitance

**Wave Form**



**Sales Office Contact Details:**

UK: +44 (0)1460 270200  
 Germany: 0800 1808 443

France: 0800 901 383  
 USA: +1.760.318.2824

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)  
 Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for IQD manufacturer:*

Other Similar products are found below :

[LFMCXO063767BULK](#) [LFMCXO063773BULK](#) [LFOCXO063809BULK](#) [LFTCXO063710BULK](#) [LFTCXO063779BULK](#)  
[LFTVXO063702BULK](#) [LFTVXO063703BULK](#) [LFTVXO063791BULK](#) [LFXTAL059643REEL](#) [LFMCXO063766BULK](#)  
[LFMCXO063771BULK](#) [LFOCXO063804BULK](#) [LFOCXO063816BULK](#) [LFTCXO063713BULK](#) [LFTCXO063714BULK](#)  
[LFTCXO063716BULK](#) [LFTVXO063704BULK](#) [LFTVXO063706BULK](#) [LFTVXO063790BULK](#) [LFTVXO063705](#) [LFOCXO063815](#)  
[LFTCXO063784](#) [LFSPXO076023Cutt](#) [LFXTAL035503Reel](#) [LFSPXO056299Cutt](#) [LFXTAL069404Cutt](#) [LFTCXO075793Cutt](#)  
[LFXTAL071266Cutt](#) [LFSPXO076024Cutt](#) [LFXTAL030140Bulk](#) [LFMCXO064084BULK](#) [LFTCXO063780BULK](#) [LFSPXO056269CUTT](#)  
[LFRBXO059244Bulk](#) [LFOCXO065520Bulk](#) [LFSPXO076032Cutt](#) [LFXTAL028928Reel](#) [LFXTAL011009Bulk](#) [LFXTAL026897Reel](#)  
[LFSPXO018043BULK](#) [LFXTAL003329BULK](#) [LFSPXO018038BULK](#) [LFXTAL056855Bulk](#) [LFSPXO076035Cutt](#) [LFSPXO073701Cutt](#)  
[LFXTAL063334](#) [LFSPXO020465BULK](#) [LFTVXO009917BULK](#) [LFSPXO071230CUTT](#) [LFSPXO071239CUTT](#)