

Customer Part:

Description

- Simple package crystal oscillator (SPXO) in a seam sealed ceramic package with a metal lid and operates over a wide supply voltage range of 1.62V to 3.63V
- Model IQXO-951 2520
- Model Issue number 3
- Note: Operating temperature range -40 to 125°C is intended for industrial use and not for safety critical applications such as automotive. Please contact IQD for alternative options.

Frequency Parameters

- Frequency 50.0MHz
- Frequency Stability $\pm 50.00\text{ppm}$
- Operating Temperature Range -40.00 to 105.00°C
- Ageing $\pm 3\text{ppm max in 1st year @ } 25^\circ\text{C}$
- Frequency Stability: inclusive of frequency tolerance at 25°C $\pm 3^\circ\text{C}$ and over the operating temperature range.

Electrical Parameters

- Current Draw (no load) 20.000mA
- Supply Voltage: 1.62V min to 3.63V max

Output Details

- Output Compatibility CMOS
- Drive Capability 15pF max
- Rise and Fall Time 6.0ns max
- Duty Cycle 45/55%

Output Control

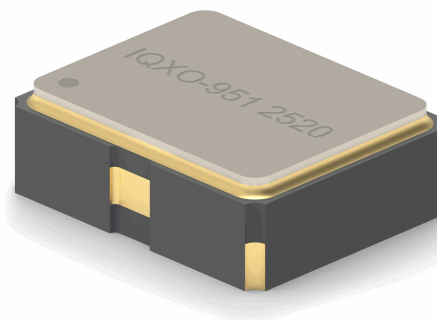
- Standby Operation:
Logic '1' (>70% VS) to pad 1 enables oscillator output
Logic '0' (<30% VS) to pad 1 disables oscillator output; when disabled the oscillator output goes to the high impedance state
No connection to pad 1 enables oscillator output.
- Start-up Time: 10ms max
1ms typ to 90% of final amplitude (under ideal conditions @ 25°C)
- Standby Current:
1.5µA typ @ 25°C
10µA max over operating temp range -40 to 85°C
20µA max over operating temp range 85 to 125°C

Output Levels

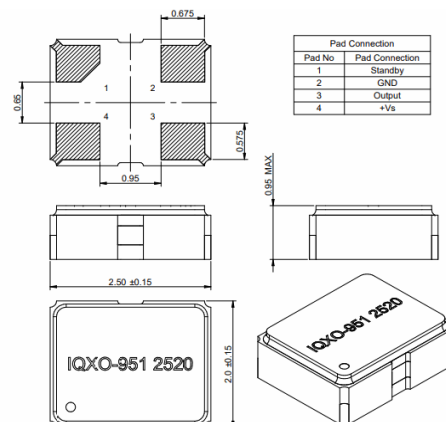
- Output Voltage Levels:
Output High (VoH): Vs-0.4V min
Output Low (VoL): 0.4V max

Noise Parameters

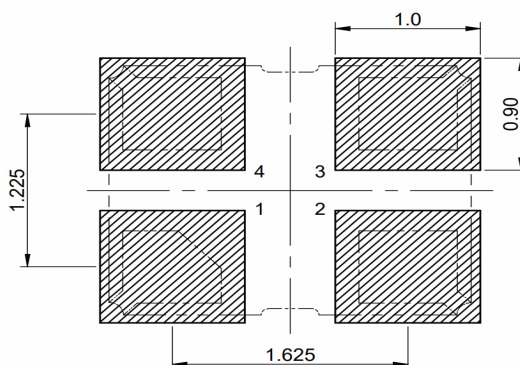
- RMS Phase Jitter (12kHz to 20MHz): 337fs typ @ 27MHz
- Phase Noise (typ @ 27MHz and @ 25°C):
-91dBc/Hz @ 10Hz
-120dBc/Hz @ 100Hz
-137dBc/Hz @ 1kHz
-145dBc/Hz @ 10kHz
-150dBc/Hz @ 100kHz
-154dBc/Hz @ 1MHz
-156dBc/Hz @ 5MHz



Outline (mm)



Recommended Solder Pad Layout



Sales Office Contact Details:

UK: +44 (0)1460 270200

Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Standard Clock Oscillators](#) category:

Click to view products by [IQD](#) manufacturer:

Other Similar products are found below :

[601252](#) [F335-25](#) [F535L-50](#) [NBXDDB017LN1TAG](#) [NBXHBA019LN1TAG](#) [SiT1602BI-22-33E-50.000000E](#) [SiT8209AI-32-33E-125.000000](#)
[SIT8918AA-11-33S-50.000000G](#) [SM4445TX-33.333M-T250](#) [F335-24](#) [F535L-12](#) [F535L-24](#) [SiT8503AI-18-33E-0.200000X](#)
[SIT9122AI2C233E300.000000X](#) [9120AC-2D2-33E212.500000](#) [ASFL1-48.000MHZ-LC-T](#) [SIT8920AM-31-33E-25.0000](#) [9102AI-](#)
[233N33E100.00000X](#) [9102AI-232H25S125.00000](#) [9102AI-133N25E200.00000](#) [3921AI-2CF-33NZ125.000000](#) [EC3620ETTS-24.000M TR](#)
[SG-210SEB 3.6864MB0](#) [SIT1602BC-83-33E-10.000000Y](#) [8003AI-12-33S-40.00000Y](#) [1602BI-13-33S-19.200000E](#) [8208AI-2F-18E-](#)
[25.000000X](#) [8208AI-8F-33E-66.666666X](#) [NX7031E0125.000000](#) [SiT1602BI-23-33E-25.000000G](#) [SiT1602BC-13-33E-50.000000E](#)
[NX51500001](#) [SiT1602BI-22-33E-12.000000E](#) [NX71C50003](#) [KN3270029](#) [SiT1602BI-22-33E-25.000000E](#) [SiT1602BI-12-33E-48.000000E](#)
[CCHD-575-25-24.000](#) [SG3225HBN 100.000000M-CJGA3](#) [SG3225HBN 156.250000M-CJGA3](#) [9120AI-2B2-25E200.0000](#) [9365AC-1E2-](#)
[33E156.250000X](#) [9365AC-1E2-33E156.253906X](#) [KK3270021](#) [HX7124001Q](#) [9003AC-23-18DQ-40.00000Y](#) [SG7050CAN 26.000000M-](#)
[TJGA3](#) [632L3I007M37280](#) [FO3HFCYM0.032768-T3](#) [SiT1602BI-23-18E-33.333330G](#)