

**Customer Part:**

**Description**

- IQXT-205-3-18 is a 2.0 x 1.6mm SMD Temperature Compensated Crystal Oscillator (TCXO) in a hermetically sealed package with a wide operating temperature range.
- Model IQXT-205-3-18
- Model Issue number 1

**Frequency Parameters**

- Frequency 33.60MHz
- Frequency Tolerance Max  $\pm 1.50\text{ppm}$
- Tolerance Condition @ 25°C  $\pm 2^\circ\text{C}$
- Frequency Stability  $\pm 0.50\text{ppm}$
- Operating Temperature Range -40.00 to 105.00°C
- Ageing  $\pm 1\text{ppm}$  max per year @ 25°C  $\pm 2^\circ\text{C}$
- Frequency Tolerance: Referred to nominal frequency before reflow soldering.
- IR Reflow Resistance (@ 25°C  $\pm 2^\circ\text{C}$  ref to frequency before reflow):  $\pm 1\text{ppm}$  max, 24hrs after reflow
- Supply Voltage Variation (@  $\pm 5\%$  change):  $\pm 0.1\text{ppm}$  max
- Load Variation (@  $\pm 10\%$  change):  $\pm 0.1\text{ppm}$  max

**Electrical Parameters**

- Supply Voltage 1.8V  $\pm 5\%$
- Current Draw Max 1.700mA
- Absolute Maximum Ratings: Supply Voltage: -0.6V to 4.6V

**Output Details**

- Output Compatibility Clipped Sine
- Drive Capability 10k $\Omega$ //10pF
- Output: DC coupled
- Output Level: 0.8V pk-pk min
- Start Up Time (90% of V pk-pk): 2ms max
- Start Up Time (within  $\pm 0.5\text{ppm}$ ): 2ms max

**Noise Parameters**

- Phase Noise (typ): -135dBc/Hz @ 1kHz

**Environmental Parameters**

- Storage Temperature Range: -40 to 105°C

**Manufacturing Details**

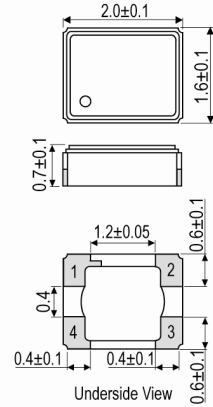
- RoHS Terminations NiAu
- RoHS Reflow Temp  $+250^\circ\text{C} \pm 10^\circ\text{C}$  for 10 sec max

**Compliance**

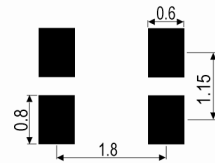
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): 2

**Packaging Details**

- Pack Style: *Cutt* Cut tape
- Pack Size: 100
- *Alternative packing option available*

**Outline (mm)**

**Pad Connections**

1. GND
2. GND
3. Output
4. +Vs

**Solder Pad Layout**

**Sales Office Contact Details:**

UK: +44 (0)1460 270200

France: 0800 901 383

 Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)

Germany: 0800 1808 443

USA: +1.760.318.2824

 Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [TCXO Oscillators](#) category:*

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

Other Similar products are found below :

[SiT5000AI-3D-33E0-10.000000X](#) [THD3031035LK280005-10.0M](#) [AST3TDATAACJ5-10.0000MHz](#) [AST3TDATAACJ5-20.0000MHz](#)  
[AST3TDA53TACJ2-19.2000MHz](#) [AST3TDA53TACJ2-38.8800MHz](#) [AST3TDATAACJ5-19.2000MHz](#) [AST3TDATAACJ5-38.8800MHz](#)  
[SiT5155AI-FK-33E0-10.000000F](#) [CVT32-10.000](#) [SIT5356AI-FQ-33E0-25.000000X](#) [SIT5357AI-FQ-33N0-100.000000X](#) [DS32KHZSN+T&R](#)  
[XTCLH25M000THJA0P0](#) [LFTCXO075793Cutt](#) [LFTCXO077229Cutt](#) [LFPTXO000002Bulk](#) [LFTCXO077228Cutt](#) [LFTCXO077230Cutt](#)  
[LFTCXO075792Cutt](#) [AST3TQ53-T-10.000MHz-5-C](#) [ATX-11-F-26.000MHz-F05-T](#) [ATX-11-F-27.000MHz-F05-T](#) [ATX-12-F-32.000MHz-](#)  
[F05-T](#) [ATX-13-F-26.000MHz-F05-T](#) [I538-2O7- 25.000 MHz](#) [I537-2O7- 39.000 MHz](#) [I537-2O7- 25.000 MHz](#) [ECS-TXO-2016-33-320-TR](#)  
[ECS-TXO-2016-33-120-TR](#) [ECS-TXO-2016-33-250-TR](#) [ECS-TXO-2016-33-200-TR](#) [ECS-TXO-20CSMV-AC-260-AY-TR](#) [TG2016SMN](#)  
[26.0000M-MCGNNM0](#) [TG2016SMN 25.0000M-MCGNNM0](#) [TG2016SMN 25.0000M-MCGNNM3](#) [TG2520SMN 16.0000M-MCGNNM0](#)  
[TG2520SMN 25.0000M-MCGNNM0](#) [TG2520SMN 40.0000M-ECGNNM0](#) [TG2520SMN 24.0000M-ECGNNM0](#) [TG2520SMN 20.0000M-](#)  
[MCGNNM0](#) [TG2520SMN 30.0000M-ECGNNM0](#) [TG2520SMN 30.000M-MCGNNM0](#) [TG2520SMN 27.0000M-MCGNNM3](#) [TG2520SMN](#)  
[32.0000M-MCGNNM3](#) [TG2520SMN 32.0000M-ECGNNM3](#) [LFPTXO000001Bulk](#) [LFTCXO063711BULK](#) [LFTCXO063713BULK](#)  
[LFTCXO063715BULK](#)