TCXO Specification

IQXT-140 3.3V

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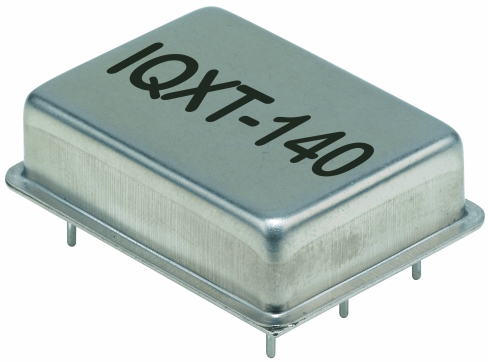
Description

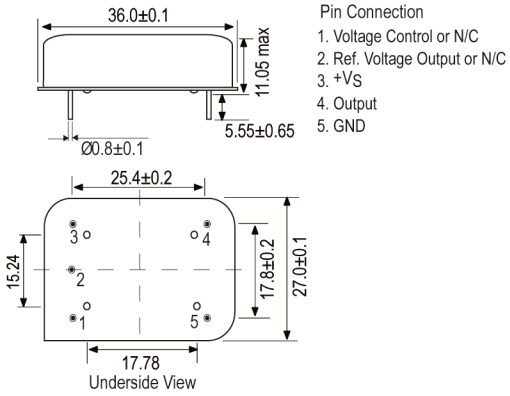
- Please note: This document is intended to illustrate the general capability and versatility of IQD's design. For specific enquiries please contact one of IQD's Sales Offices where we can tailor a unique specification to meet your needs.
  Low phase noise optimised design.
  High stability.
  Low ageing.
  Tuning range also available.



Frequency Parameters

- Frequency 2.0MHz to 150.0MHz
- Frequency Stability ±1.00ppm to ±2.00ppm
- Typical Ageing @ 143MHz: ±1ppm in the 1st year, ±5ppm after 15 years
- Developed Frequencies:
  6.40MHz 8.1920MHz 10.0MHz 12.80MHz 16.3840MHz
  19.440MHz 24.0MHz 26.0MHz 27.0MHz 28.0MHz
  32.7680MHz 56.0MHz 80.0MHz 100.0MHz 143.0MHz
- For other frequency/specification combinations, please contact an IQD Sales Office
- Frequency Stability vs Temperature Range:
  Tightest Stability: ±1ppm -20 to 70°C
  Widest Temperature Range: ±2ppm -40 to 85°C

Outline (mm)



Electrical Parameters

- Supply Voltage 3.3V

Frequency Adjustment

- Frequency Adjustment Range: ±5ppm to ±15ppm (optional)

Operating Temperature Ranges

- -20 to 70°C
- -40 to 85°C

Output Details

- Output Compatibility HCMOS/Sinewave
- Available with either HCMOS output up to 120MHz or Sinewave output up to 150MHz

Noise Parameters

- Typical Phase Noise Figures @ 10MHz (dBc/Hz):

100Hz	1kHz	10kHz	100kHz
–115	–135	–140	–145

Environmental Parameters

- Storage Temperature Range: -55 to 105°C
- Environmental testing taken from IEC 60068
  Please contact an IQD Sales Office for full details

Sales Office Contact Details:

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Ordering Information

- Minimum Enquiry Information:
  Frequency
  Model
  Supply Voltage
  Output
  Frequency Stability (over operating temperature range)
  Operating Temperature Range
  Frequency Adjustment

Compliance

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

Packaging Details

- Pack Style: Bulk Supplied tube or box packaging
  Pack Size: 40

Electrical Specification - maximum limiting values 3.3V

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
2.0MHz	150.0MHz	-20 to 70	±1.0	-	-	-
		-40 to 85	±2.0	-	-	-

This document was correct at the time of printing; please contact your local sales office for the latest version.
Click to view latest version on our website.

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