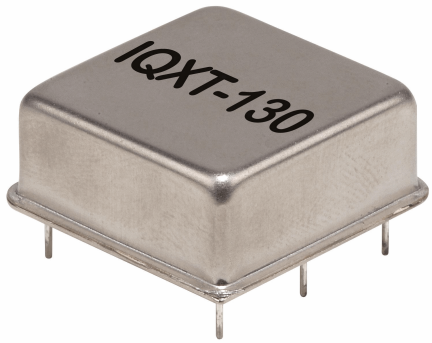
TCXO Specification
IQXT-130

ISSUE 1; October 2015

Description

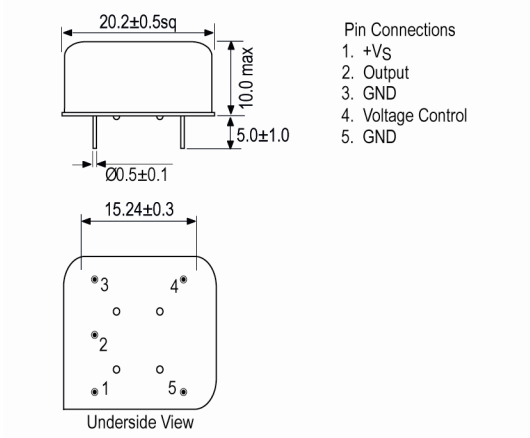
- Please note: This document is intended to illustrate the general capability and versatility of IQD's design. For specific enquiries please contact one of IQD's sales offices where we can tailor a unique specification to meet your needs.
  Hermetically sealed temperature compensated crystal oscillator.
  Tuning range also available.



Frequency Parameters

- Frequency 1.0MHz to 800.0MHz
- Frequency Stability ±0.28ppm to ±2.00ppm
- Ageing (typical): ±1ppm in the first year, ±3ppm after 10 years
- Frequency Stability Options:
  ±0.28ppm max
  ±0.5ppm max
  ±1.0ppm max
  ±1.5ppm max
  ±2.0ppm max
  Other combinations possible please contact Sales office
- Typical Frequency vs Supply Voltage Change:
  Vs ±5% = ±0.1ppm max
- Typical Frequency vs Load Change:
  15pF ±10% = ±0.2ppm

Outline (mm)



Electrical Parameters

- Supply Voltage 5.0V
- Supply Voltage: Available in 5.0V and 3.3V
  (Lower then 3.3V is available on request)
- Typical Supply Current Draw (HCMOS):
  Frequency Current draw
  @1.0kHz 5mA
  @40.0MHz 30mA
  @800.0MHz 100mA

Frequency Adjustment

- Frequency Adjustment Range options:
  ±5ppm min
  ±10ppm min
  ±20ppm min (limited availability)
  No pulling option
- Control Voltage Range:
  For 3.3V supply = 1.65V ±1.5V
  For 5.0V supply = 2.5V ±2.0V

Operating Temperature Ranges

- -10 to 60°C
- -20 to 70°C
- -40 to 85°C

Output Details

- Output Compatability HCMOS/Sinewave
- Sinewave Output Level:
  @3.3V 0dBm typ
  @5.0V 0dBm typ
- HCMOS Output Level:
  VoH = >90% Vs
  VoL = < 10% Vs
  Duty Cycle = 40/60%
  Rise and fall time = 10ns max

Sales Office Contact Details:

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Noise Parameters

- Typical Phase Noise Figures @ 20.0MHz:

Offset	Typical
10Hz	-80dBc
100Hz	-120dBc
1kHz	-140dBc
10kHz	-150dBc
100kHz	-155dBc

Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-883C, Method 2002, Condition B
- Vibration: MIL-STD-883C, Method 2007, Condition A

Ordering Information

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

Compliance

- RoHS Status (2011/65/EU) Compliant
- REACh Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Bulk Supplied tube or box packaging
  Pack Size: 80

Electrical Specification - maximum limiting values 5.0V

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
1.0MHz	800.0MHz	-10 to 60	±0.28	-	-	-
		-20 to 70	±0.28	-	-	-
		-40 to 85	±0.28	-	-	-

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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