

ISSUE 1; September 2016

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 Oven Controlled Crystal Oscillator (OCXO)
 - in industry standard case style
 - Ultra low phase noise
 - Tight temperature stability
 - Voltage controlled frequency adjustment optional



Frequency Parameters

- Frequency: 80.0MHz to 130.0MHz
- Frequency Stability: $\pm 50.00\text{ppb}$

Electrical Parameters

- Supply Voltage: 12.0V $\pm 5\%$
- Power Consumption:
 - During warm up: 350mA max (warm up time 5mins max)
 - At 25°C, after warm up: 150mA max

Operating Temperature Ranges

- 20 to 70°C

Output Details

- Output Compatibility: Sinewave
- Drive Capability: 50Ω
- Output Power: +13dBm into 50Ω

Output Control

- Pulling Example (optional):
 - Pulling Range: $\pm 2\text{ppm}$ min
 - Control Voltage: 2.5V $\pm 2.5\text{V}$

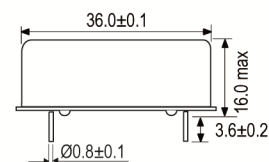
Noise Parameters

- Phase Noise (typical figures @ 100.0MHz, 12.0V supply and sinewave):
 - 95dBc/Hz @ 10Hz
 - 130dBc/Hz @ 100Hz
 - 160dBc/Hz @ 1kHz
 - 175dBc/Hz @ 10kHz
 - 180dBc/Hz @ 100kHz
 - 182dBc/Hz @ 1MHz
- Note: We are at an advanced stage of further development on the close-in phase noise and expect to be able to offer improved performance in this area in the near future.

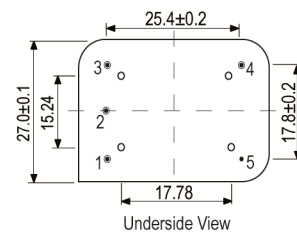
Environmental Parameters

- Shock: IEC 60068-2-27, Test Ea (CECC 69000, clause 4.6.8): 100G, 6ms duration, 3 times in each of 3 mutually perpendicular planes
- Vibration (Sinusoidal): IEC 60068-2-6, Test Fc (CECC 69000, clause 4.6.7): 10Hz-55Hz 0.75mm displacement, 55Hz-200Hz 10G acceleration, 30mins in each of 3 mutually perpendicular planes

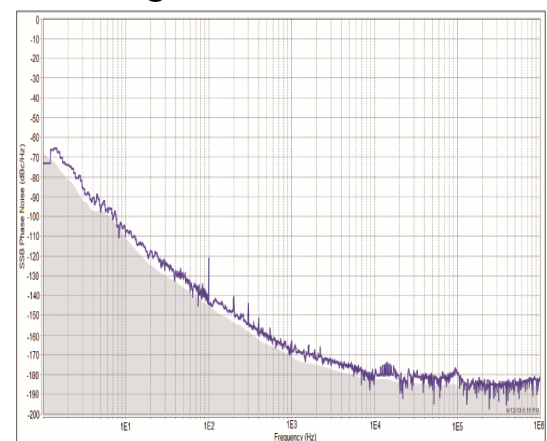
Outline (mm)



- Pin Connection
- Voltage Control
 - N/C
 - +VS
 - Output
 - GND



Phase Noise @ 100.0MHz



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
Web: www.iqdfrequencyproducts.com

Compliance

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

Packaging Details

- Pack Style: Bulk Loose in bulk pack
Pack Size: 1

Electrical Specification - maximum limiting values 12.0V \pm 5%

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppb	mA	ns	%
80.0MHz	130.0MHz	-20 to 70	\pm 50.0	-	-	-

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