

OUTPUT

Frequency
100 MHz

Level
+10 dBm ±2 dB into 50 ohms Sine

STABILITY

Aging

≤1 x 10⁻⁶ per year after 120 days operating
±0.3 x 10⁻⁶ per year, years two to seven

Phase Noise SSB L(f), Static

1K	10K	100	1M	HZ
-152	-170	-172	-173	dBc/Hz

Acceleration Sensitivity

5e -10/g, typical

Load Stability

± 0.2 x 10⁻⁶ for a ± 10% change

Harmonics

≤ -40 dBc typical

Spurious (non-Harmonics)

≤ -70 dBc within 50 MHz of carrier

Warm-Up Time

3 minutes, typical at +25°C

POWER REQUIREMENTS, typical

Turn-On Current

3 W for 2 minutes

Total Power

<1.1 W, typical

Supply Voltage

+8 VDC, ±5%

MECHANICAL

Dimensions

1.0 x 1.0 x 0.5"
(max seated height 0.55")

Connectors

Solder pins on base

Packaging

Solder sealed steel can

ADJUSTMENT

Electrical Tuning

-5.0 to +5.0 10⁻⁶, nominal,

+0.2 to +4.8Vdc
Positive slope, +2.2 ppm/V nominal
BW, 100 Hz nominal

CRYSTAL

Type

100 MHz SC- cut,

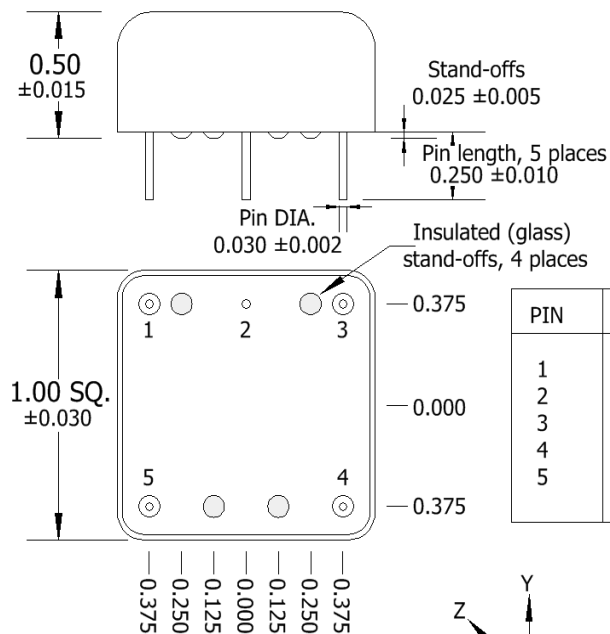
TEST DATA

Output Level at +25°C
Static Phase Noise
Temperature Stability

OTHER

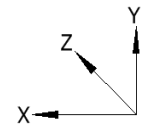
This part uses lead solder

REV	DATE	REVISION RECORD	DWN	AUTH
-	09-20-23	Initial Release	MA	LIZ



PIN	FUNCTION
1	RF Output
2	Ground, Case
3	Electrical Tuning
4	N/C
5	Supply Voltage

Connector numbers are for reference only. They are not marked on the unit.



Quantic Wenzel
Wenzel Associates, Inc.

Title: **100 MHz Onyx OCXO Low Noise Oscillator**

P/N: 501-35288	Rev: -	Date: 09-20-23	Drawn:	Ref: 34327
Tolerances: (except as noted) Dimensions are in inches		0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821

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