

REV	DATE	REVISION RECORD	DWN	AUTH
-	11-01-17	Draft	BH	BB

OUTPUT

Frequency

100 MHz

Level

+10 ±2 dBm into 50 ohms

STABILITY

Aging

±1 x 10⁻⁶ per year

after 30 days operating, typical

Phase Noise L(f), typical, Static

100 MHz -01 -02 -03 -04

10 Hz -90 -95 -99 -104 dBc/Hz*

100 Hz -120 -125 -130 -135 dBc/Hz

1 kHz -145 -150 -155 -156 dBc/Hz

10 kHz -165 -168 -170 -172 dBc/Hz

100 kHz -165 -168 -172 -172 dBc/Hz

*typical at 10 Hz

Temperature Stability

≤ ±2 x 10⁻⁷, 0° to +50°C (Ref +25°C)

≤ ±5 x 10⁻⁷, -20° to +70°C (Ref +25°C)

≤ ±1.1 x 10⁻⁶, -40° to +85°C (Ref +25°C)

Harmonics

≤ -30 dBc

Spurious, tested, guaranteed

≤ -80 dBc, ≤ -100dBc

MECHANICAL

Dimensions

≤ 1.03" x 1.03" x 0.515"

Connectors

Solder pins on base, glass stand-offs

Packaging

Solder sealed steel can

POWER REQUIREMENTS

Warm-Up Power

≤ 3W for 2.5 min

Total Power

≤ 1.1W at +25°C steady state, typical

Supply Voltage

+12 VDC ±1 VDC

ADJUSTMENT

Electrical Tuning

±4 x 10⁻⁶ nominal, 0 - 5 VDC,

Positive slope

CRYSTAL

Type

SC-cut, 5e-10/g typical

TEST DATA

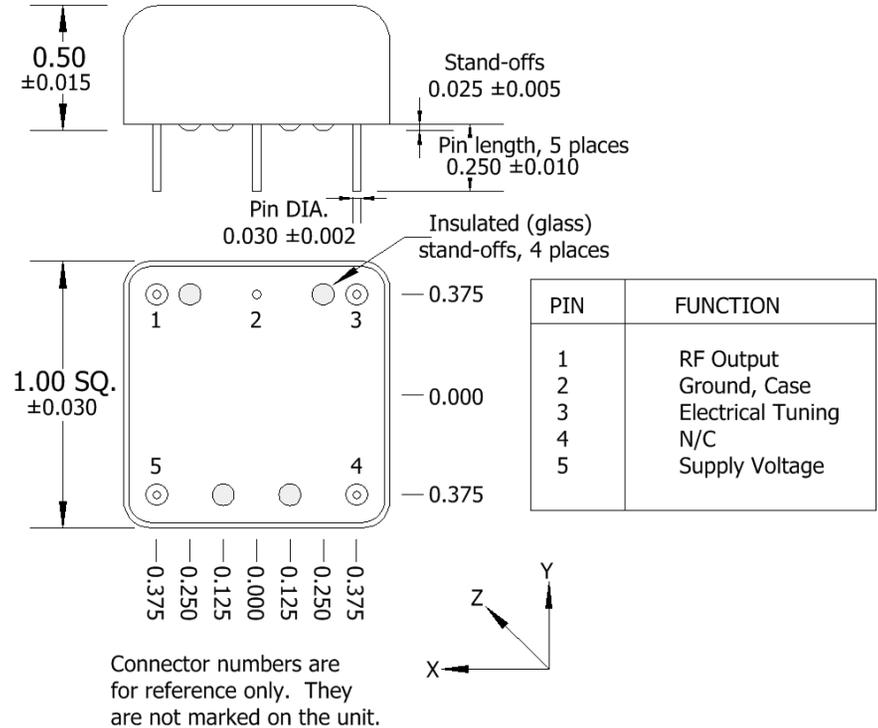
Output Level at +25°C

Static Phase Noise

Temperature Stability

Power – Warm-up

Total at +25°C



Wenzel Associates, Inc.
Austin, Texas

Title: **100 MHz-SC ONYX IV Crystal Oscillator**

P/N: 501-31285-XX	Rev: -	Date: 11-01-17	Drawn:	Ref: 24760
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olerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1
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