

OUTPUT**Frequency**

10 MHz

Level+10 dBm \pm 3 dB into 50 ohms**STABILITY****Aging** $\pm 5 \times 10^{-10}$ per day after 30 days operating, typical $\pm 5 \times 10^{-8}$ per year after 180 days operating, typical**Phase Noise L(f)**

10 Hz -130 dBc/Hz

100 Hz -156 dBc/Hz

1 kHz -163 dBc/Hz

10 kHz -165 dBc/Hz

100 kHz -165 dBc/Hz

Temperature $\pm 5 \times 10^{-8}$, -20°C to +70°C (Ref +25°C) $\pm 2 \times 10^{-7}$, -40°C to +85°C (Ref +25°C)**MECHANICAL****Dimensions**

1" x 1" x 0.5"

Connectors

Solder pins on base

Packaging

Solder sealed steel can

POWER REQUIREMENTS**Warm-Up Power**

<4W for 3 min

Total Power

< 1.5W at +25°C steady state, typical

Supply Voltage+12 VDC, \pm 5%**ADJUSTMENT****Electrical Tuning** $\pm 1 \times 10^{-6}$, 0 - 10 VDC

Positive slope

CRYSTAL**Type**

10 MHz SC-cut

CRYSTAL**Type**SC-cut, low-g:
Typical $1e-10/g$ per axis**ENVIRONMENTAL****Temperature-Altitude**

40,000 feet at -40°C, operating

Storage

-54° to +85°C

Vibration, typical10 to 1000 Hz, $0.06 g^2 / Hz$

1000 Hz to 2000 Hz, -6dB/Octave

10 gs RMS

Shock

12 gs for 11 msec, three axes

Secure when mounting using

MIL-Grade epoxy

Humidity

95 to 100 percent relative humidity,

+28° to +85°C

TEST DATA

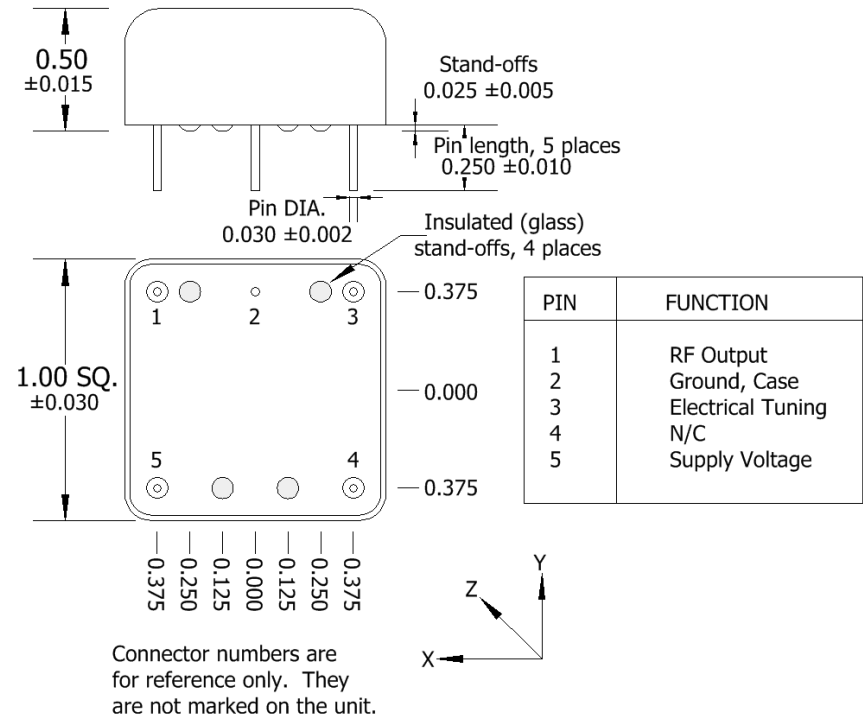
Output Level at +25°C

Static and Dynamic Phase Noise

Temperature Stability

Power – Warm-up and Total at +25°C

REV	DATE	REVISION RECORD	DWN	AUTH
-	06-04-13	Draft	Liz	

**Wenzel Associates, Inc.**

Austin, Texas

Title:

Premium-Low-G 10 MHz-SC Onyx IV Crystal Oscillator

P/N:

501-26891-XX

Rev:

-

Date:

06-04-13

Drawn:

Ref:

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:

 ± 0.030 "

0.XXX Dec:

 ± 0.010 "

FSCM:

62821

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