

OUTPUT**Frequency**

10 MHz

Level

+10 dBm ±3 dB into 50 ohms

STABILITY**Aging**±5 x 10⁻¹⁰ per day after 30 days
operating, typical±5 x 10⁻⁸ per year after 180 days
operating, typical**Phase Noise L(f)****-01, -02, -03, -04**

10 Hz -135 dBc/Hz

100 Hz -158 dBc/Hz

1 kHz -163 dBc/Hz

10 kHz -165 dBc/Hz

100 kHz -165 dBc/Hz

Temperature±5 x 10⁻⁸, -20°C to +70°C (Ref +25°C)±2 x 10⁻⁷, -40°C to +85°C (Ref +25°C)**MECHANICAL****Dimensions**

≤ 1.03" x 1.03" x 0.515"

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, ±5%

ADJUSTMENT**Electrical Tuning**±1 x 10⁻⁶, 0 - 10 VDC

Positive slope

CRYSTAL**Type**

10 MHz SC-cut

CRYSTAL**Type**

SC-cut, low-g:

-01 3e-10/g typical**-02** 3e-10/g per axis, guaranteed**-03** 2e-10/g per axis, guaranteed**-04** 1e-10/g per axis, guaranteed**ENVIRONMENTAL****Temperature-Altitude**

40,000 feet at -40°C, operating

Storage

-54° to +85°C

Vibration, typical10 to 1000 Hz, 0.06 g²/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

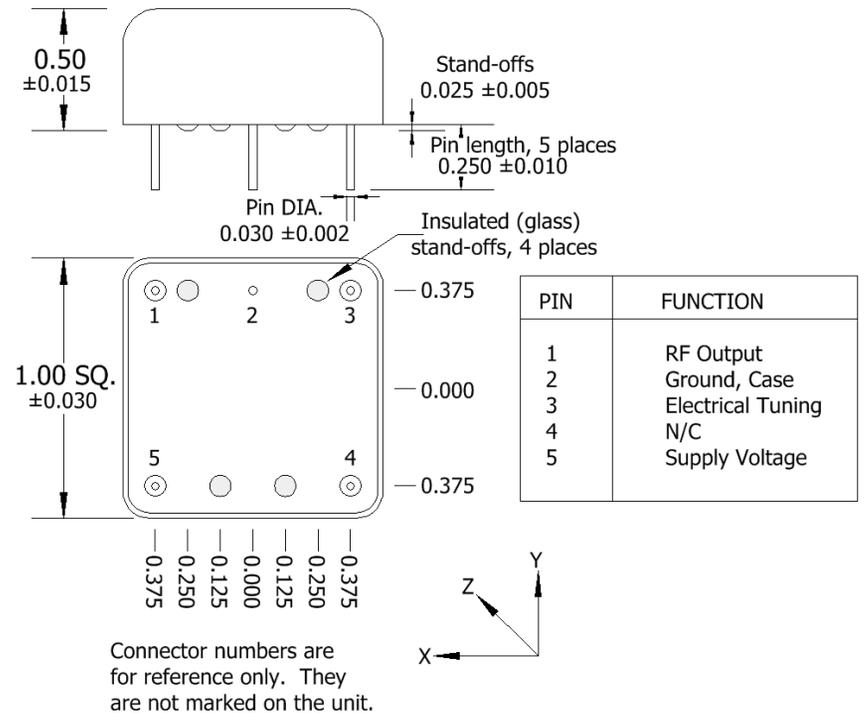
Static and Dynamic Phase Noise

Temperature Stability

Power – Warm-up and Total at +25°C

-01 Phase Noise under vibration at0.06 g²/Hz at 100 Hz, one axis**-02** Phase Noise under vibration data,0.06 g²/Hz at 100 Hz, three axes**-03** Phase Noise under vibration data,0.06 g²/Hz at 100 Hz, three axes**-04** Phase Noise under vibration data,0.06 g²/Hz at 100 Hz, three axes

REV	DATE	REVISION RECORD	DWN	AUTH
-	03-28-13	Draft	Liz	
A	08-28-13	Added -04	Liz	

**Wenzel Associates, Inc.**

Austin, Texas

Title:

Premium Rugged 10 MHz-SC Onyx IV Crystal Oscillator

P/N:

501-26719-XX

Rev:

A

Date:

08-28-13

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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