

OUTPUT

Frequency

100 MHz

Level

+8 ±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

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

100 Hz -120 -125 -130 dBc/Hz

1 kHz -145 -150 -153 dBc/Hz

10 kHz -160 -164 -165 dBc/Hz

100 kHz -163 -168 -170 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

+5 VDC ±5%

ADJUSTMENT

Electrical Tuning

±5 x 10⁻⁶ nominal, 0 - 5 VDC,

Positive slope

CRYSTAL

Type

SC-cut, 5e-10/g typical

TEST DATA

Output Level at +25°C

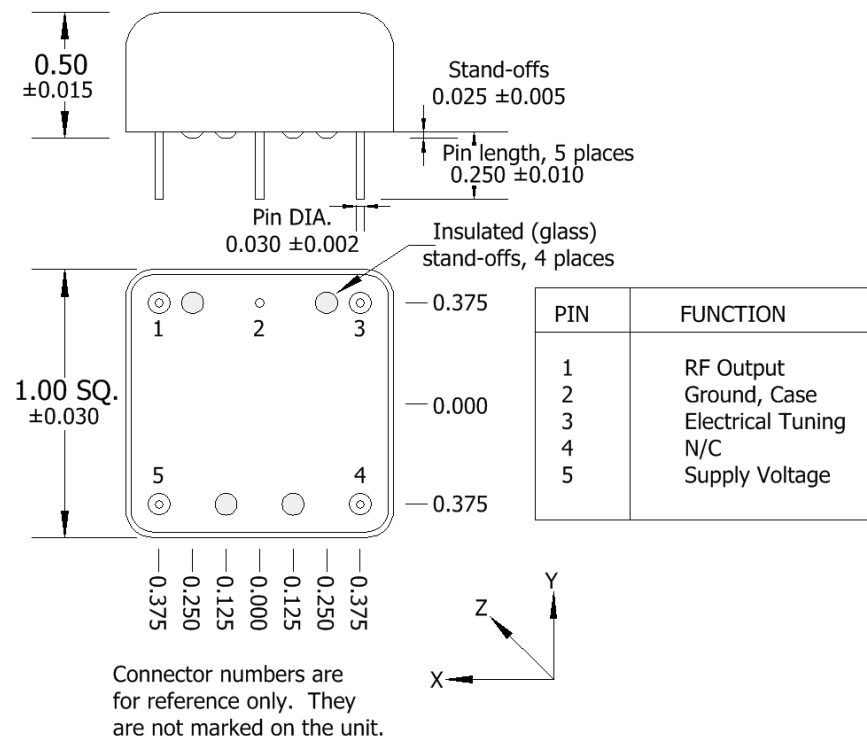
Static Phase Noise

Temperature Stability

Power – Warm-up

Total at +25°C

REV	DATE	REVISION RECORD	DWN	AUTH
-	02-18-15	Draft	BH	LR
A	09-03-15	Phase Noise, removed -04	BH	LR



Wenzel Associates, Inc.

Austin, Texas

Title:

100 MHz-SC ONYX IV Crystal Oscillator +5V

P/N:

501-27111-XX

Rev:

A

Date:

09-03-15

Drawn:

Ref:

24760

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:
±0.030"

0.XXX Dec:
±0.010"

FSCM:
62821

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