

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

	Standard	Premium
10 Hz	-100 dBc/Hz	-105 dBc/Hz
100 Hz	-130 dBc/Hz	-135 dBc/Hz
1 kHz	-156 dBc/Hz	-158 dBc/Hz
10 kHz	-173 dBc/Hz	-176 dBc/Hz
100 kHz	-175 dBc/Hz	-180 dBc/Hz

*typical at 10 Hz

Temperature Stability

E: ±2 x 10⁻⁷, 0° to +50°C (Ref +25°C)

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

G: ±1.5 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", max outline

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

±7 x 10⁻⁶ nominal, 0 - 10 VDC,

Positive slope

CRYSTAL

Type

SC-cut

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
-	05-24-18	Draft	BH	BB
A	01-31-19	Phase noise at 1 kHz offset	PAC	CR

Ordering Options

-XX	Phase Noise L(f)	Temp (Ref +25°C)
01	Standard	E
02	Standard	F
03	Standard	G
11	Premium	E
12	Premium	F
13	Premium	G



Wenzel Associates, Inc.

Austin, Texas

Title:

100 MHz-SC ULN ONYX IV Crystal Oscillator

P/N:

501-31724-xx

Rev:

A

Date:

01-31-19

Drawn:

Ref:

24760

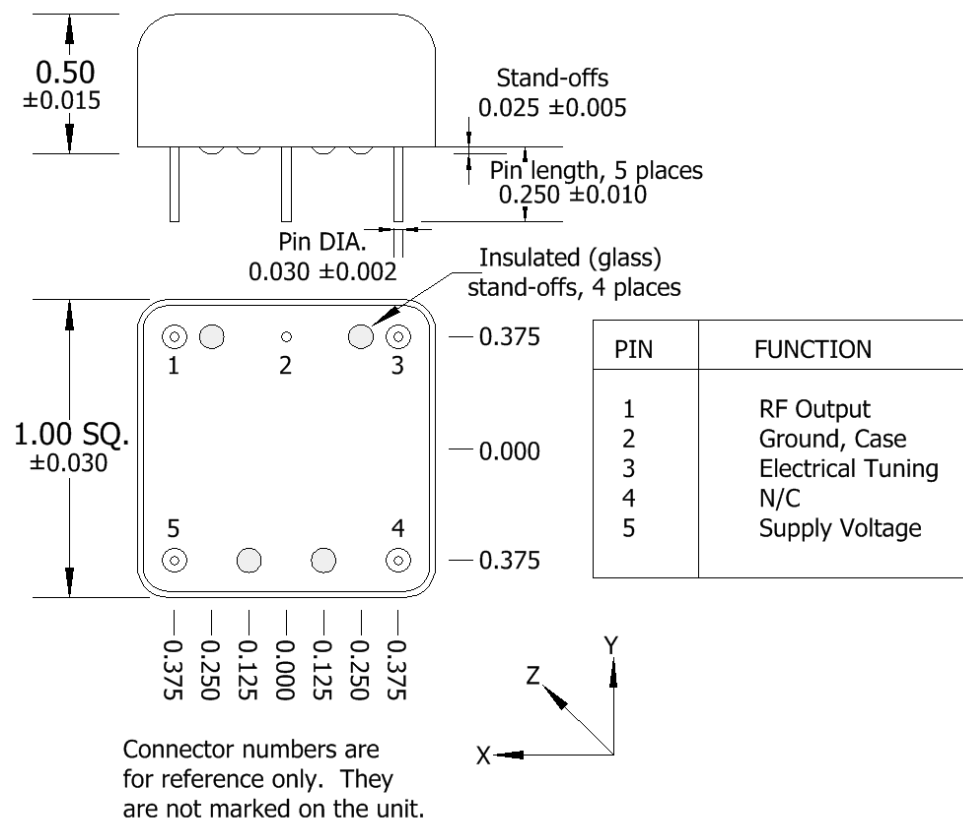
olerances:
(except as noted)
Dimensions are in inches

0.XX Dec:
±0.030"

0.XXX Dec:
±0.010"

FSCM:
62821

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