

OUTPUT

Frequency

80 MHz

Level

+10 \pm 2 dBm into 50 ohms

STABILITY

Aging

$\pm 1 \times 10^{-6}$ per year

after 30 days operating, typical

Phase Noise L(f), typical, Static

80 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	-171	-172	dBc/Hz

*typical at 10 Hz

Temperature Stability

$\leq \pm 2 \times 10^{-7}$, 0° to +50°C (Ref +25°C)

$\leq \pm 5 \times 10^{-7}$, -20° to +70°C (Ref +25°C)

$\leq \pm 1.5 \times 10^{-6}$, -40° to +85°C (Ref +25°C)

Harmonics

≤ -30 dBc

Spurious, tested, guaranteed

≤ -80 dBc, ≤ -100 dBc

MECHANICAL

Dimensions

$\leq 1.03'' \times 1.03'' \times 0.515''$

Connectors

Solder pins on base, glass stand-offs

Packaging

Solder sealed steel can

POWER REQUIREMENTS

Warm-Up Power

≤ 3 W for 2.5 min

Total Power

≤ 1.1 W at +25°C steady state, typical

Supply Voltage

+12 VDC \pm 1 VDC

ADJUSTMENT

Electrical Tuning

$\pm 7 \times 10^{-6}$ nominal, 0 - 10 VDC,

Positive slope

CRYSTAL

Type

SC-cut, 5e-10/g typical

TEST DATA

Output Level at +25°C

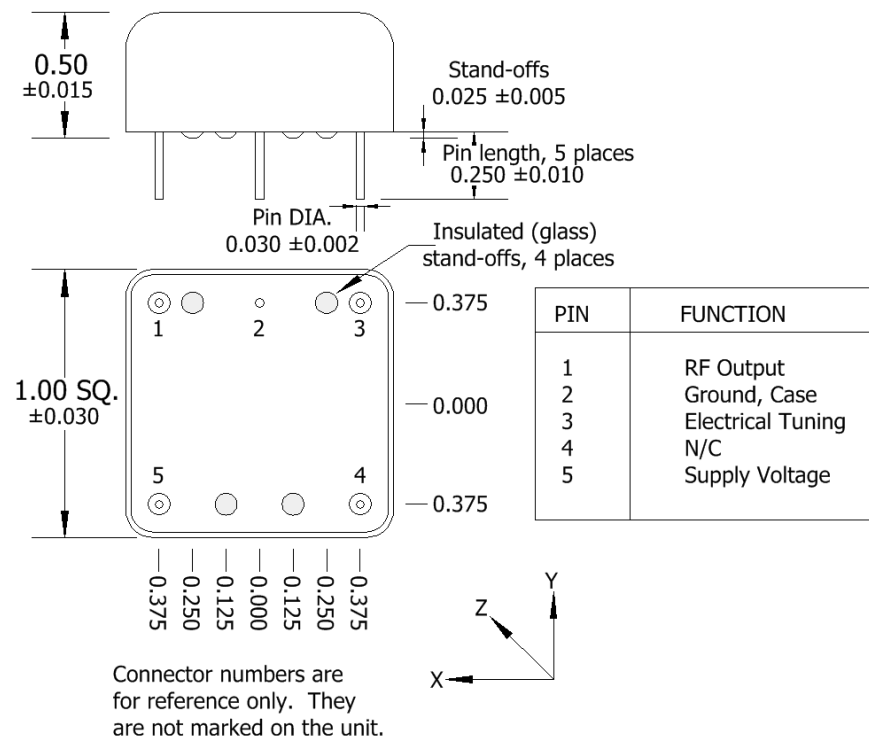
Static Phase Noise

Temperature Stability

Power – Warm-up

Total at +25°C

REV	DATE	REVISION RECORD	DWN	AUTH
-	02-07-14	Draft	Liz	
A	10-26-15	Noise Label at 80 MHz	Liz	



Wenzel Associates, Inc.

Austin, Texas

Title:

80 MHz-SC ONYX IV Crystal Oscillator

P/N:

501-27829-XX

Rev:

A

Date:

10-26-15

Drawn:

Ref:

24760

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:
 $\pm 0.030''$

0.XXX Dec:
 $\pm 0.010''$

FSCM:
62821

Page 1 of 1