

REV	DATE	REVISION RECORD	DWN	AUTH
-	04-28-21	Draft	BH	LR

**OUTPUT**

**Frequency**

100 MHz

**Level**

+10 ±2 dBm into 50 ohms

**STABILITY**

**Aging**

±1 x 10<sup>-6</sup> per year  
after 30 days operating, typical

**Phase Noise L(f), typical, Static**

10 Hz -90 dBc/Hz\*  
100 Hz -126 dBc/Hz  
1 kHz -145 dBc/Hz  
10 kHz -166 dBc/Hz  
100 kHz -170 dBc/Hz

\*typical at 10 Hz

**Temperature Stability**

≤ ±2 x 10<sup>-7</sup>, 0° to +50°C (Ref +25°C)  
≤ ±5 x 10<sup>-7</sup>, -20° to +70°C (Ref +25°C)  
≤ ±1.1 x 10<sup>-6</sup>, -40° to +85°C (Ref +25°C)

**Harmonics**

≤ -30 dBc

**Spurious**

≤ -80 dBc

**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**

+12 VDC ±1 VDC

**ADJUSTMENT**

**Electrical Tuning**

±7 x 10<sup>-6</sup> nominal, 0 - 10 VDC,  
Positive slope

**CRYSTAL**

**Type**

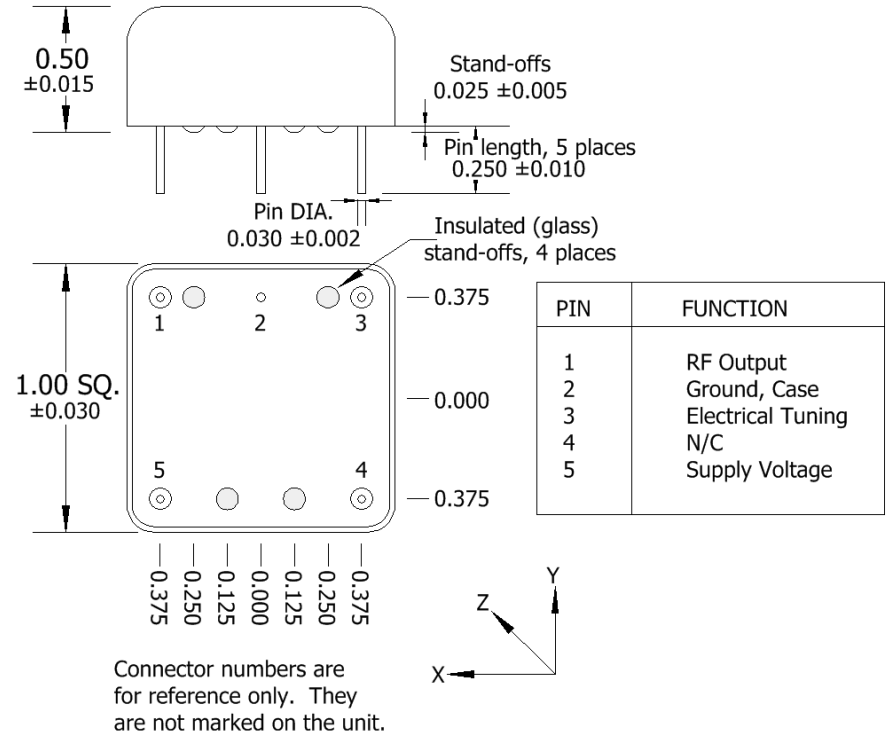
SC-cut, 3e-10/g typical


**OTHER**

**Label**

Label as follows:

501-33924  
10 MHz  
VDC  
SN – Date Code



 <b>Wenzel Associates, Inc.</b> Austin, Texas				
Title:				
<b>100 MHz-SC ONYX IV Crystal Oscillator</b>				
P/N:	Rev:	Date:	Drawn:	Ref:
<b>501-33924</b>	-	<b>04-28-21</b>		<b>24760</b>
olerances: (except as noted) Dimensions are in inches	0.XX Dec: <b>±0.030"</b>	0.XXX Dec: <b>±0.010"</b>	FSCM: <b>62821</b>	Page 1 of 1