

**OUTPUT**

**Frequency**

10 MHz

**Level**

+10 dBm ±3 dB into 50 ohms

**STABILITY**

**Aging**

±5 x 10<sup>-10</sup> per day after 30 days  
operating, typical

±5 x 10<sup>-8</sup> per year after 180 days  
operating, typical

**Phase Noise L(f)**

	<b>-01, -02, -03</b>	<b>-04, -05, -06</b>
10 Hz	-125 dBc/Hz	-135 dBc/Hz
100 Hz	-150 dBc/Hz	-158 dBc/Hz
1 kHz	-160 dBc/Hz	-163 dBc/Hz
10 kHz	-165 dBc/Hz	-165 dBc/Hz
100 kHz	-165 dBc/Hz	-165 dBc/Hz

**Temperature Stability**

**-01, -04** ±2 x 10<sup>-8</sup>, 0°C to +50°C (Ref +25°C)

**-02, -05** ±5 x 10<sup>-8</sup>, -20°C to +70°C (Ref +25°C)

**-03, -06** ±1 x 10<sup>-7</sup>, -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<sup>-6</sup>, 0 - 10 VDC

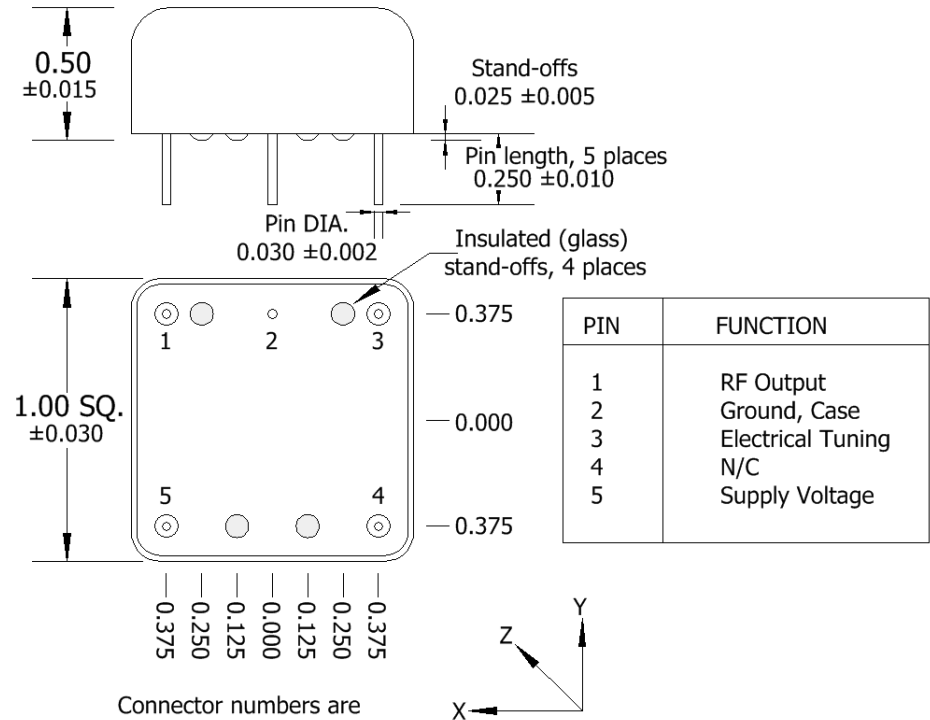
Positive slope

**CRYSTAL**


**Type**

10 MHz SC-cut

REV	DATE	REVISION RECORD	DWN	AUTH
-	06-18-10	Draft	Liz	
A	10-04-11	Temp, Noise	Liz	
B	12-21-11	IV, aging	Liz	
C	04-23-12	ET range, temp co, 1k noise	Liz	
D	08-29-12	Mechanical Dimensions (Height)	BH	LR
E	04-20-14	100 Hz noise	Liz	



Connector numbers are for reference only. They are not marked on the unit.

 <b>Wenzel Associates, Inc.</b> Austin, Texas				
Title:				
<b>Standard 10 MHz-SC Onyx IV Crystal Oscillator</b>				
P/N:	Rev:	Date:	Drawn:	Ref:
<b>501-22578-xx</b>	<b>E</b>	<b>04-20-14</b>		
Tolerances: (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