

OUTPUT**Frequency**

10 MHz

Level

+10 dBm ±3 dB into 50 ohms

STABILITY**Aging**±5 x 10⁻¹⁰ per day after 30 days
operating, typical±5 x 10⁻⁸ per year after 180 days
operating, typical**Phase Noise L(f) -- Static**

10 Hz -126 dBc/Hz

100 Hz -146 dBc/Hz

1 kHz -160 dBc/Hz

10 kHz -165 dBc/Hz

100 kHz -165 dBc/Hz

Temperature±5 x 10⁻⁸, -20°C to +70°C (Ref +25°C)±2 x 10⁻⁷, -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 10⁻⁶, 0 - 10 VDC

Positive slope

CRYSTAL**Type**

10 MHz SC-cut

CRYSTAL**Type**

SC-cut

-01 3e-10/g per axis, guaranteed**-02** 2e-10/g per axis, guaranteed**ENVIRONMENTAL****Temperature-Altitude**

40,000 feet at -40°C, operating

Storage

-54° to +85°C

Vibration, typical10 to 1000 Hz, 0.06 g²/Hz

1000 Hz to 2000 Hz, -6dB/Octave

10 gs RMS

Shock

12 gs for 11 msec, three axes

Secure when mounting using

MIL-Grade epoxy

Humidity

95 to 100 percent relative humidity,

+28° to +85°C

OTHER**Label**

Label as follows:

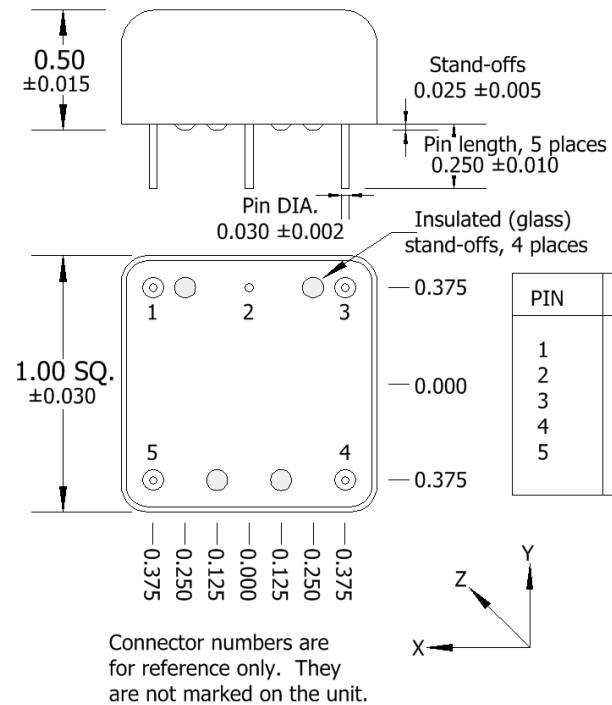
501-33921-XX

10 MHz

VDC

SN – Date Code

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

**Wenzel Associates, Inc.**

Austin, Texas

Title:

Rugged 10 MHz-SC Onyx IV Crystal Oscillator

P/N:

501-33921-XX

Rev:

-

Date:

04-28-21

Drawn:

Ref:

26709Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:

±0.030"

0.XXX Dec:

±0.010"

FSCM:

62821

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