

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

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 10⁻⁷, 0° to +50°C (Ref +25°C)
≤ ±5 x 10⁻⁷, -20° to +70°C (Ref +25°C)
≤ ±1.1 x 10⁻⁶, -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 10⁻⁶ nominal, 0 - 10 VDC,
Positive slope

CRYSTAL

Type

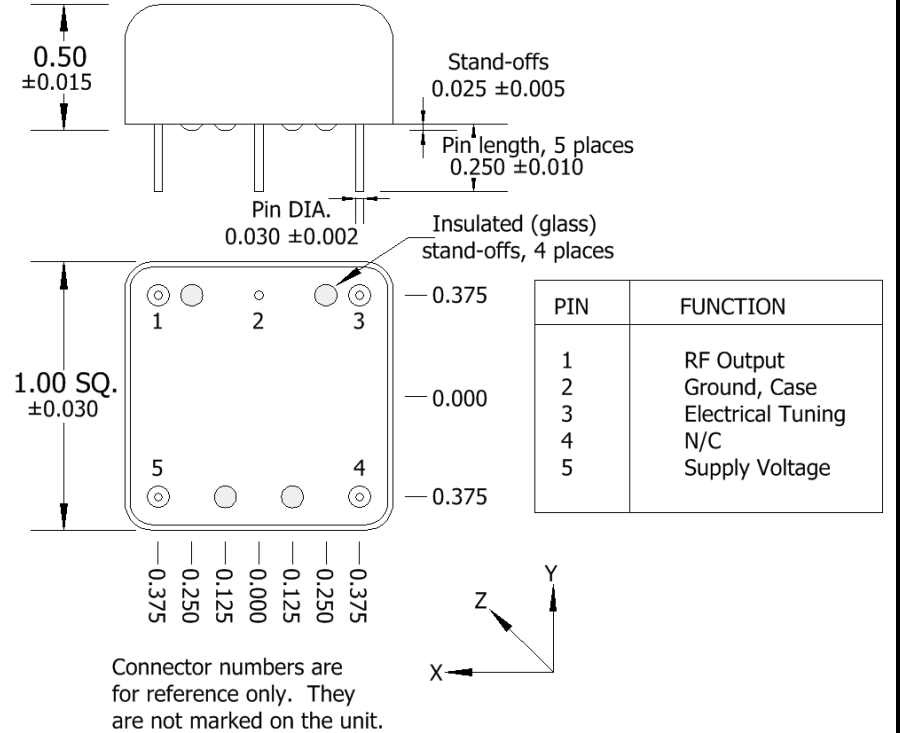
SC-cut, 3e-10/g typical

OTHER

Label

Label as follows:

501-33924
10 MHz
VDC
SN – Date Code



WA Wenzel Associates, Inc.
Austin, Texas

Title: **100 MHz-SC ONYX IV Crystal Oscillator**

| | | | | |
|---|-----------------------------|------------------------------|-----------------------|---------------------------|
| P/N: 501-33924 | Rev: - | Date: 04-28-21 | Drawn: | Ref: 24760 |
| olerances: (except as noted) Dimensions are in inches | 0.XX Dec: ±0.030" | 0.XXX Dec: ±0.010" | FSCM: 62821 | Page 1 of 1 |