

| REV | DATE | REVISION RECORD | DWN | AUTH |
|-----|----------|-------------------------------------|-----|------|
| - | 03-20-95 | Draft | BH | |
| A | 09-17-98 | Aging | KW | GP |
| B | 05-10-99 | Aging, Phase Noise, Temp. Stability | KW | GP |
| C | 10-29-99 | Aging, Phase Noise, Tuning Hole | KP | BH |
| D | 01-19-00 | Correct ET on Drawing | KP | KW |
| E | 02-11-00 | Correct Drawing | KP | KW |
| F | 03-20-02 | Change Phase Noise | PC | BH |
| G | 04-07-03 | Change Phase Noise | SS | |

OUTPUT

Frequency

100 MHz

Level

+13 dBm ±2 dB into 50 ohms

STABILITY

Aging

1 x 10⁻⁶ per year

after 30 days operating, typical

Phase Noise L(f)

100 Hz -130 dBc/Hz

1 kHz -158 dBc/Hz

10 kHz -176 dBc/Hz

20 kHz -176 dBc/Hz

Temperature Stability

±2 x 10⁻⁷, 0° to +60°C (Ref +25°C)

MECHANICAL

Dimensions

1.75 x 2.94 x 1"

Connectors

SMA on side and solder pins on base

Packaging

Solder sealed steel can

POWER REQUIREMENTS

Warm-Up Power

<5 Watts for 5 minutes

Total Power

2.5 Watts at +25°C

Supply Voltage

+15 VDC

ADJUSTMENT

Mechanical Tuning

±4 x 10⁻⁶

Electrical Tuning

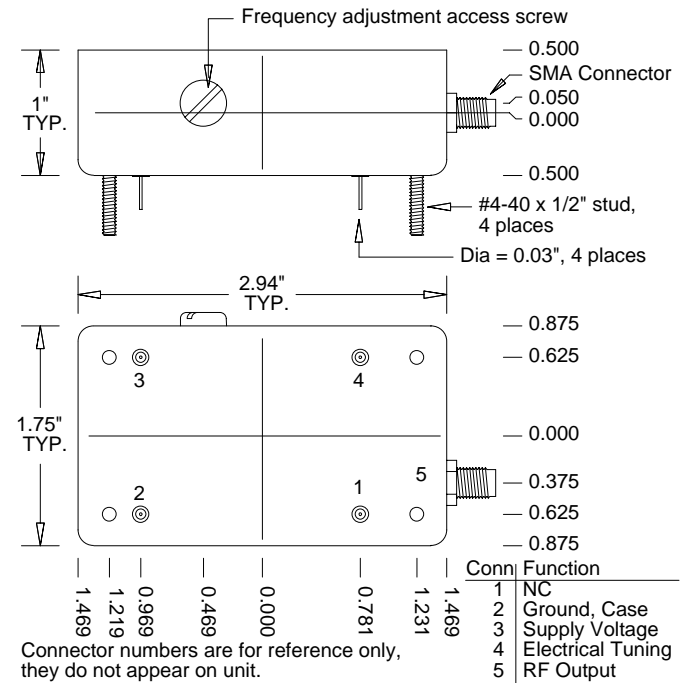
±2 x 10⁻⁷, ±5 VDC


Negative slope

CRYSTAL

Type

100 MHz SC-cut



| | | | | |
|---|--------------------------|---------------------------|--------------------|---------------------------|
|  Wenzel Associates, Inc. Austin, Texas | | | | |
| Title: Premium 100 MHz-SC Ultra Low Noise Crystal Osc. | | | | |
| P/N: 501-04623 | Rev: G | Date: 04-07-03 | Drawn: | Ref: |
| Tolerances: (except as noted) Dimensions are in inches | 0.XX Dec: ±0.030" | 0.XXX Dec: ±0.010" | FSCM: 62821 | Page 1 of 1 |