

EV	DATE	REVISION RECORD	DWN	AUTH
-	10-10-12	Initial Release	Liz	
A	05-29-15	Improved Close In Phase noise	CB	
B	05-10-16	Noise	Liz	
C	03-12-19	100k, 1M noise	Liz	

OUTPUT

Frequency

160 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 -120 dBc/Hz
1 kHz -148 dBc/Hz
10 kHz -170 dBc/Hz
100 kHz -172 dBc/Hz
1 MHz -176 dBc/Hz

Temperature Stability

±2 x 10⁻⁷, 0° to +50°C (Ref +25°C)

Harmonics

≤ -30 dBc

Spurious

≤ -90 dBc, excluding power
supply line related spurs

MECHANICAL

Dimensions

1.835 x 1.865 x 0.75"

Connectors

SMA(f) and solder pins on side

Packaging

Nickel-plated machined aluminum case

POWER REQUIREMENTS

Warm-Up Power

≤ 5 Watts for 5 minutes

Total Power

≤ 2.7 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Mechanical Tuning

±4 x 10⁻⁶

Electrical Tuning

±2 x 10⁻⁷, ±5 VDC
Negative slope

CRYSTAL

Type

160 MHz SC-Cut

ENVIRONMENTAL

Operating Temperature

0° to +50°C

Storage Temperature

-40° to +85°C

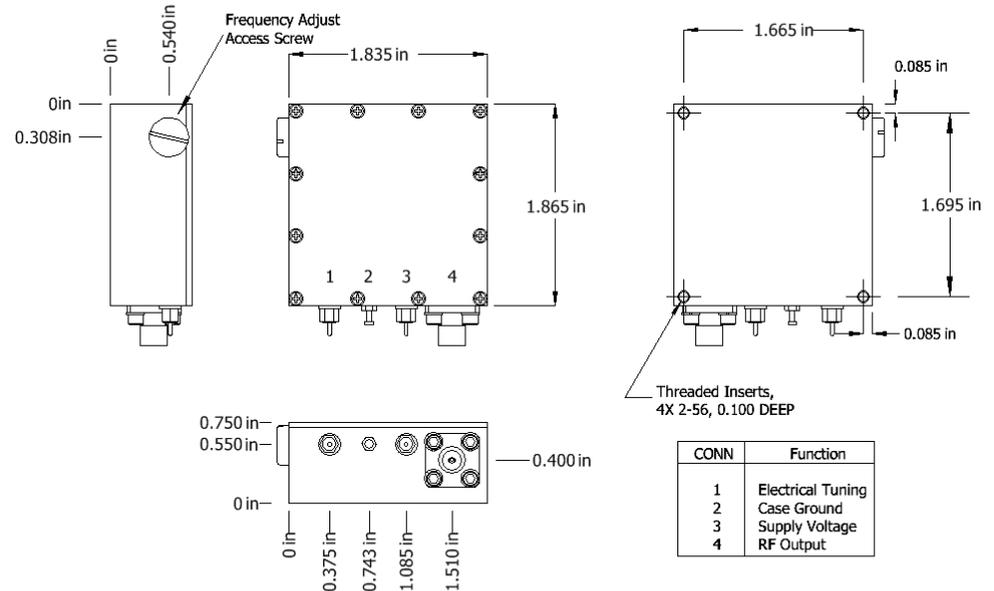
OTHER

Label

Use conventional label
with the following
information:
501-26351 (Current Rev)
160 MHz ULN
+15 VDC
Serial # - Date Code

Test Data

Output Level
Phase Noise, Static
Temperature Stability
Harmonics, Spurious
Power – Warm-up and
Total
Tuning – MT and ET



Wenzel Associates, Inc.

Austin, Texas

Title: **160 MHz-SC Ultra Low Noise Crystal Oscillator**

P/N: 501-26351	Rev: C	Date: 03-12-19	Drawn:	Ref: 23145
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Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1
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