

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

OUTPUT

Frequency

100 MHz

Level

+13 dBm ± 2 dB into 50 ohms, -20 to +70°C

+13 ± 3 dB into 50 ohms, -55 to +85°C

STABILITY

Aging (typical)

1 x 10⁻⁶ per year after 30 days operating

5 x 10⁻⁷ second year

3 x 10⁻⁷ per year, thereafter

Phase Noise L(f)

100 Hz -126 dBc/Hz

1 kHz -146 dBc/Hz

10 kHz -165 dBc/Hz

100 kHz -165 dBc/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)

±2 x 10⁻⁶, -55° to +85°C (Ref +25°C)

Harmonics

≤ -30 dBc

Spurious

≤ -80 dBc

MECHANICAL

Packaging

Solder sealed steel can

Dimensions

2 x 2 x 0.75"

Connectors / Mounting

SMA(f) and solder pins on side;
threaded inserts, #4-40, 2 places

POWER REQUIREMENTS

Warm-Up Power

≤ 6 Watts for 5 minutes at +25°C

Total Power

≤ 3 Watts at +25°C

Supply Voltage

+12 VDC ±5% to +15 VDC ±5%

ADJUSTMENT

Mechanical Tuning

±4 x 10⁻⁶

Electrical Tuning

±5 x 10⁻⁷, ±5 VDC, Negative slope

CRYSTAL

Type

100 MHz SC-cut

OTHER

Label

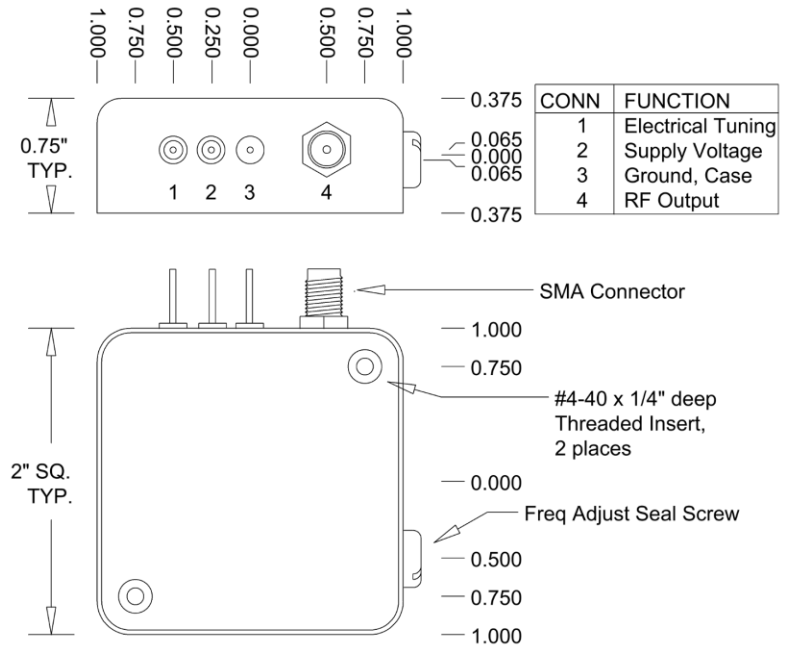
Label as follows:

501-33926

100 MHz

+12/+15VDC

SN - Date Code



Connector numbers are for reference only, they are not marked on unit.



Wenzel Associates, Inc.

Austin, Texas

Title: 100 MHz-SC Sprinter Crystal Oscillator				
P/N: 501-33926	Rev: -	Date: 04-28-21	Drawn:	Ref: 27514
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1