

**INPUT****Frequency**

10 MHz, +3 to +13 dBm into 50 ohms

**OUTPUT – 10 MHz****Frequency**

10 MHz, +12 dBm ±2 dB

**Phase Noise**

10 Hz -130 dBc/Hz  
 100 Hz -150 dBc/Hz  
 1 kHz -160 dBc/Hz  
 10 kHz -165 dBc/Hz

**Harmonics, Subs, Spurious**

-25, -85, -85 dBc

**OUTPUT – 100 MHz****Frequency**

100 MHz, +12dBm ±2 dB

**Output Phase Noise L(f)****Locked to Internal 10 MHz**

10 Hz -100 dBc/Hz  
 100 Hz -118 dBc/Hz  
 1 kHz -150 dBc/Hz  
 10 kHz -165 dBc/Hz

**Harmonics, Subs, Spurious**

-25, -85, -85 dBc to 600 MHz

**Loop BW**Target Bandwidth: 40 Hz, typical,  
type 2 Loop**STABILITY****Aging**±5 x 10<sup>-10</sup> per day at time of  
shipment,**Temperature Stability**±1 x 10<sup>-8</sup> 0 to +50°C, (Ref. +25°C)**Phase Lock Alarm - TTL**Locked: +3.5 to +5.2 VDC (Hi)  
Unlocked: +0.8 VDC max (Lo)**Phase Lock Voltage Monitor**Voltage monitor pin supplied,  
0 to +7.5 VDC range**MECHANICAL****Dimensions**

2.5 x 6.0 x 0.9"

**Connectors**SMA's  
7 Pin D-subminiature, male**Packaging**

Nickel plated machined brass housing

**POWER REQUIREMENTS****Supply Voltage**

+12 ±0.5VDC

**Warm-Up Power**12.6 Watts maximum at start-up for 5  
minutes at +25° C**Total Power**

6 Watts, typical, steady state +25°C

**ADJUSTMENT****Electrical Tuning**±.1 ppm, 0 to +10 VDC  
Centered at +5 VDC  
Negative Slope

Suitable for use with a 100 k ohm pot

**Reference Select Switch**>+4.0 Volts enables external reference  
<+1.0 Volts disables external**NOTE**When the external 10 MHz reference is  
applied the internal 10 MHz is disabled and  
the external 10 MHz signal is phase locked to  
the 100 MHz internal OCXO. The external 10  
MHz is also routed through the 10 MHz  
output port.

REV	DATE	REVISION RECORD	DWN	AUTH
-	07-05-12	Draft	VG	DC
A	01-31-13	Correct P/N to 501- was 500-	Liz	

**Wenzel Associates, Inc.**

Austin, Texas

Title:

**10 and 100 MHz Phase Locked Oscillator**

P/N:

**501-26085**

Rev:

**A**

Date:

**01-31-13**

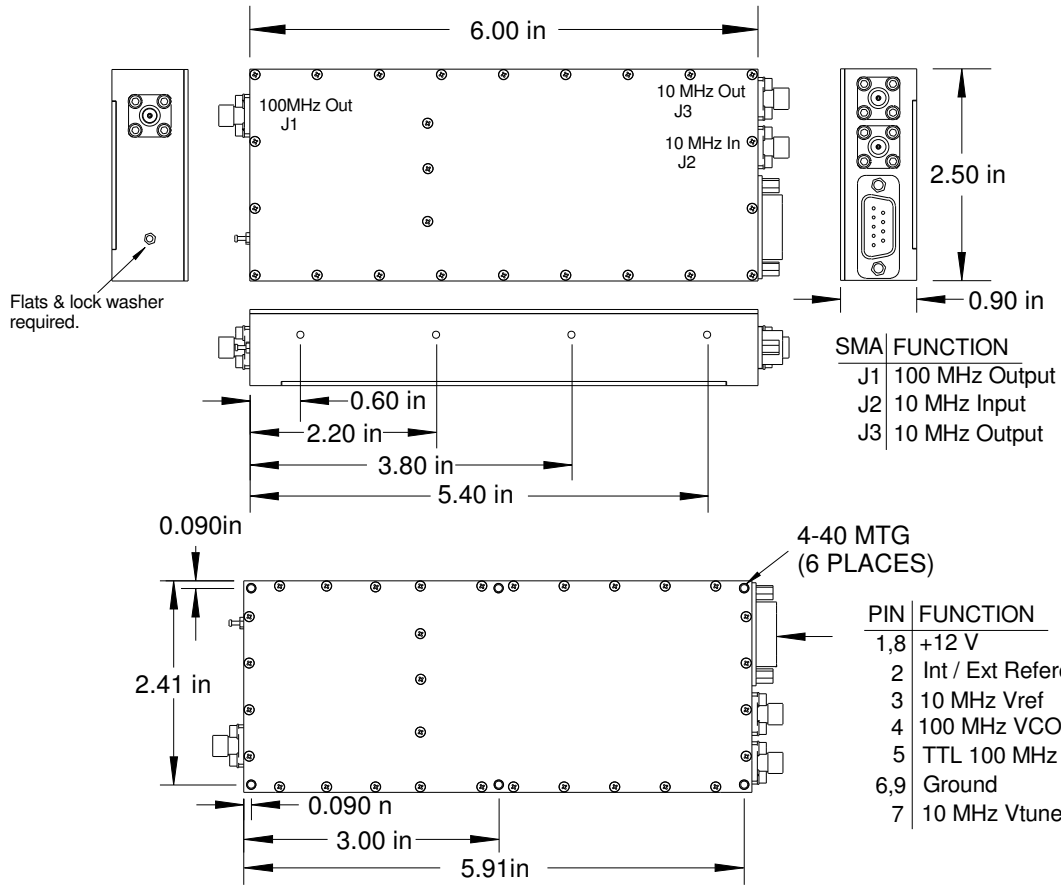
Drawn:

Ref:

Tolerances:  
(except as noted)  
Dimensions are in inches0.XX Dec:  
**±0.030"**0.XXX Dec:  
**±0.010"**FSCM:  
**62821**

Page 1 of 2

REV	DATE	REVISION RECORD	DWN	AUTH
-	07-05-12	Draft	VG	DC
A	01-31-13	Correct P/N to 501- was 500-	Liz	



**Wenzel Associates, Inc.**  
Austin, Texas

Title:

**10 and 100 MHz Phase Locked Oscillator**

P/N:

**501-26085**

Rev:

**A**

Date:

**01-31-13**

Drawn:

Ref:

Tolerances:  
(except as noted)  
Dimensions are in inches

0.XX Dec:  
**±0.030"**

0.XXX Dec:  
**±0.010"**

FSCM:  
**62821**

Page 2 of 2