

INPUT**Input Frequency**

10 MHz ±1 ppm

Level

+12 dBm ±2 dB into 50 ohms

OUTPUTS**Frequency**

10 MHz

Level

+12 dBm ±2 dB into 50 ohms

Frequency

100 MHz

Level

+13 dBm ±2 dB into 50 ohms

STABILITY**Aging**5 x 10⁻¹⁰ per day after 30 days
operating, typical**Phase Noise L(f)****10 MHz 100 MHz**

10 Hz -140 dBc/Hz -113 dBc/Hz

100 Hz -162 dBc/Hz -136 dBc/Hz

300 Hz -168 dBc/Hz -138 dBc/Hz

1 KHz -173 dBc/Hz -158 dBc/Hz

10 KHz -175 dBc/Hz -176 dBc/Hz

Temperature Stability±2 x 10⁻⁸, 0° to +50°C (Ref +25°C)**Sub-Harmonics and related products**

<-60 dBc

Harmonics

<-25 dBc

MECHANICAL**Dimensions**

5 x 6 x 2.62"

Connectors

SMA F and feedthru capacitors

PackagingAluminum housing with extended
mounting cover and gasketed
access screw**POWER REQUIREMENTS****Warm-Up Power**

<18 Watts max for 5 minutes

Total Power

<11 Watts at +25°C

Supply Voltage

+15 VDC

ADJUSTMENT**Loop BW**

Target Bandwidth: 1 Hz

Type 2 Loop

Mechanical Tuning±1 x 10⁻⁶**CRYSTAL****Type**

SC-cut

OTHER**Marking**

Label connectors

TEST DATA

Output Level

Temp. Stability

Phase Noise

Mechanical Tuning

Steady State Current

Warm-Up Current

Harmonics

Sub-Harmonics

REV	DATE	REVISION RECORD	DWN	AUTH
-	02-11-14	Initial Release	PAC	
A	05-16-18	Picture (Connectors)	BH	
B	05-29-18	Input Frequency Tolerance to ±1 ppm	PAC	DC

**Wenzel Associates, Inc.**

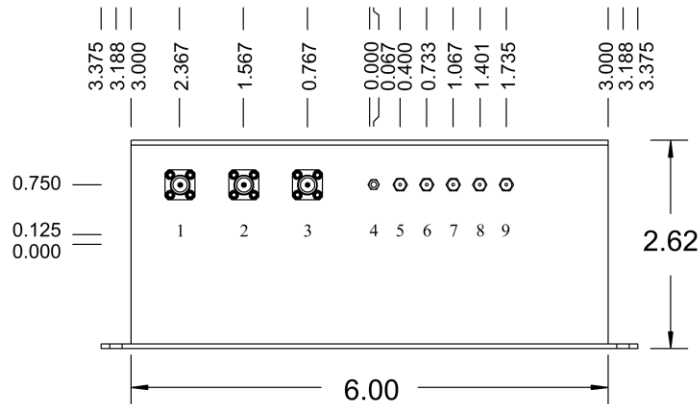
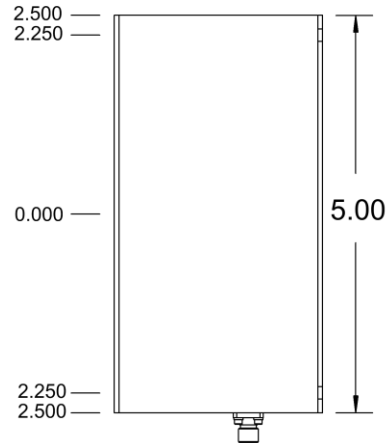
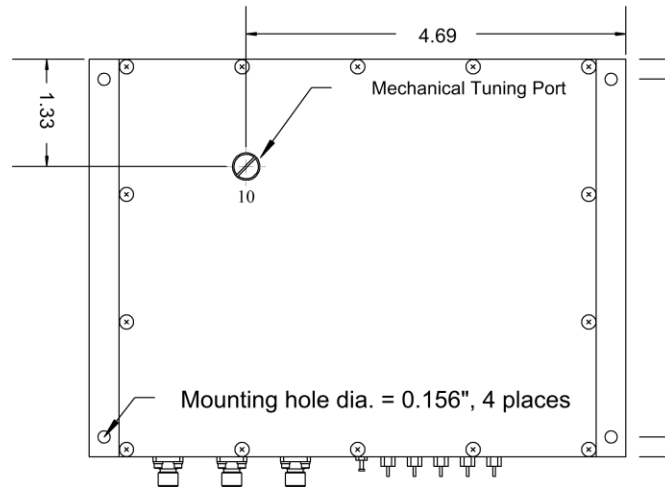
Austin, Texas

Title:

10/100 MHz-SC Sorcerer PLO with ext. 10 MHz

P/N: 501-27841	Rev: B	Date: 05-29-18	Drawn:	Ref: 500-20709d
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 2

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-	02-11-14	Initial Release	PAC	
A	0-16-18	Picture (Connectors)	BH	
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Pin	Function
1	10 MHz Input
2	10 MHz Output
3	100 MHz Output
4	Ground
5	+15 VDC
6	Rail Detect (100 MHz)
7	Lock Detect (100 MHz)
8	Rail Detect (10 MHz)
9	Lock Detect (10 MHz)
10	10 MHz Mech. Tuning



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 ± 0.030 "

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62821

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