

INPUT**Input Frequency**

10 MHz ± 2 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 DATAOutput 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	

**Wenzel Associates, Inc.**

Austin, Texas

Title:

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

P/N:

501-27841

Rev:

-

Date:

02-11-14

Drawn:

Ref:

500-20709c

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:

±0.030"

0.XXX Dec:

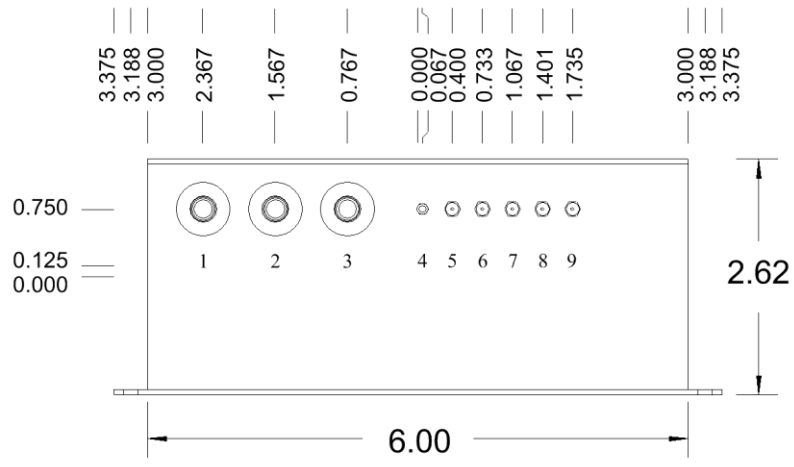
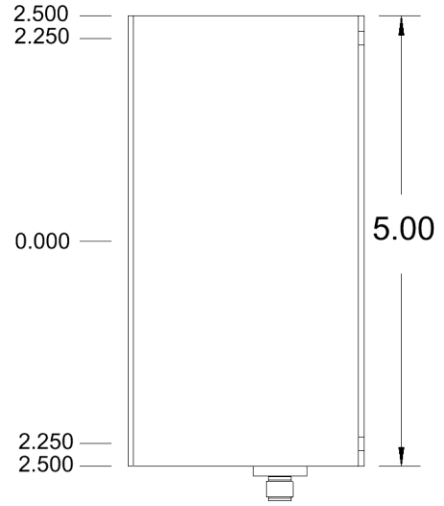
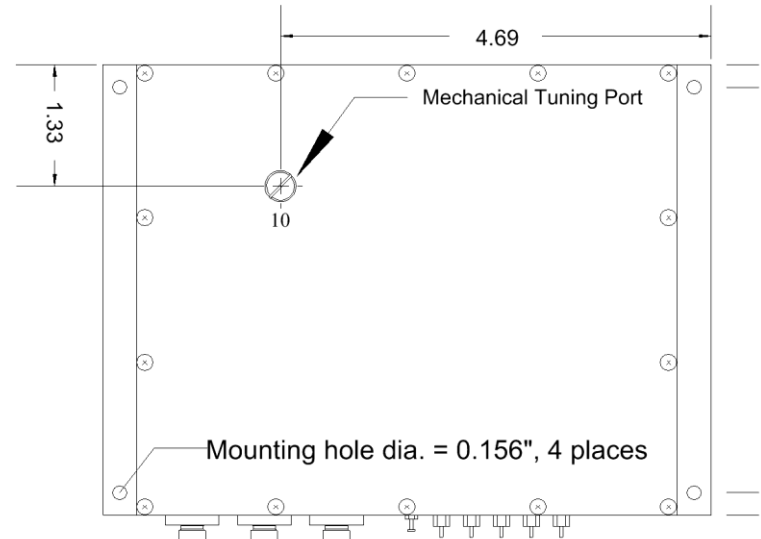
±0.010"

FSCM:


62821

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REV	DATE	REVISION RECORD	DWN	AUTH
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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

 Wenzel Associates, Inc. Austin, Texas				
Title: 10/100 MHz-SC Sorcerer PLO with ext. 10 MHz				
P/N: 501-27841	Rev: -	Date: 02-11-14	Drawn:	Ref: 500-20709c
Tolerances: (except as noted) Dimensions are in inches		0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821