

**OUTPUTS**

**Frequency**

5 MHz

**Level**

+10 dBm ±2 dB into 50 ohms, four ports

**Frequency**

100 MHz

**Level**

+10 dBm ±2 dB into 50 ohms, one port

**STABILITY**

**Aging**

5 x 10<sup>-10</sup> per day after 30 days  
operating, typical

**Phase Noise L(f)**

**5 MHz                      100 MHz**

10 Hz	-145 dBc/Hz	-115 dBc/Hz
100 Hz	-165 dBc/Hz	-135 dBc/Hz
300 Hz	-167 dBc/Hz	-138 dBc/Hz
1 KHz	-170 dBc/Hz	-150 dBc/Hz
10 KHz	-170 dBc/Hz	-160 dBc/Hz
100 KHz	-170 dBc/Hz	-170 dBc/Hz

**Temperature Stability**

±5 x 10<sup>-8</sup>, 0° to +50°C (Ref +25°C)

**Harmonics**

-25 dBc

**Sub-Harmonics**

-50 dBc

**PLL Divider Products**

-50 dBc

**Spurious**

-80 dBc, excluding power supply  
line related spurs

**MECHANICAL**

**Dimensions**

5 x 6 x 2.62"

**Connectors**

SMA(f) and feedthru capacitors

**Packaging**

Aluminum housing with extended  
mounting cover and gasketed  
access screw

**POWER REQUIREMENTS**

**Warm-Up Power**

≤ 18.5 Watts max for 5 minutes

**Total Power**

≤ 11.5 Watts at +25°C

**Supply Voltage**

+15 VDC ±5%

**ADJUSTMENT**

**Electrical Tuning**

±2 x 10<sup>-6</sup>, ±5 VDC

**CRYSTAL**

**Type**

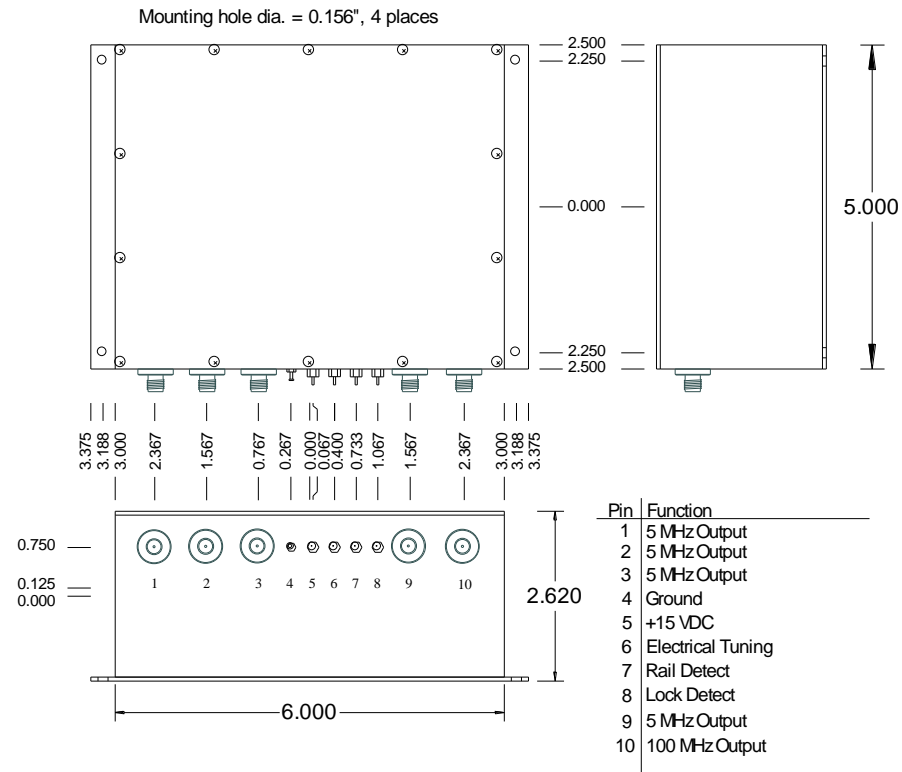
SC-cut

**OTHER**

**Marking**

Label connectors

REV	DATE	REVISION RECORD	DWN	AUTH
-	03-04-14	Initial Release	PAC	



Wenzel Associates, Inc.  
Austin, Texas

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Title: **5 MHz and 100 MHz-SC Sorcerer Phase Locked Source**

P/N: <b>501-27907</b>	Rev: -	Date: <b>03-04-14</b>	Drawn:	Ref: 13164h
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Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: <b>±0.030"</b>	0.XXX Dec: <b>±0.010"</b>	FSCM: <b>62821</b>	Page 1 of 1
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