REV	DATE	REVISION RECORD	DWN	AUTH
-	06-13-08	Initial Release	PAC	

OUTPUT

Frequency

5 MHz and 100 MHz

Level

5 MHz: +10 dBm ±2 dB into 50 ohms

100 MHz: +10 dBm ±2 dB into 50 ohms

STABILITY

Aging

5×10^{-10} per day after 30 days operating, typical

Phase Noise L(f)

	5 MHz	100 MHz
10 Hz	-150 dBc/Hz	-120 dBc/Hz
100 Hz	-168 dBc/Hz	-135 dBc/Hz
300 Hz	-170 dBc/Hz	-140 dBc/Hz
1 KHz	-172 dBc/Hz	-155 dBc/Hz
10 KHz	-175 dBc/Hz	-174 dBc/Hz
100 KHz	-175 dBc/Hz	-174 dBc/Hz

Temperature Stability

$\pm 2 \times 10^{-8}$, 0° to +50°C (Ref +25°C)

Harmonics

≤ -25 dBc

Sub-Harmonics and related products

≤ -50 dBc

Spurious

≤ -80, excluding power supply line related spurs

Warm-Up

<15 min to $\pm 1 \times 10^{-6}$ of 24-hour frequency, target 5 min.

MECHANICAL

Dimensions

4.75 x 3.5 x 1”

Connectors

SMA(f) and feedthru capacitors

Packaging / Finish

Nickel-plated machined aluminum housing

Mounting

2-56 threaded insets, 6 places

POWER REQUIREMENTS

Warm-Up Power

≤ 15 Watts max for 5 minutes

Total Power

≤ 10 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Mechanical Tuning (5 MHz)

$\pm 2 \times 10^{-7}$

Electrical Tuning (5 MHz)

$\pm 1.5 \times 10^{-6}$, 0 to +10 VDC

Negative slope

Crystal Type

SC-cut

OTHER

Marking

Label connectors

Label

Wenzel P/N: 501-19250 (Current Rev.)

5 MHz and 100 MHz

+15 VDC

Serial # - Date Code

Test Data

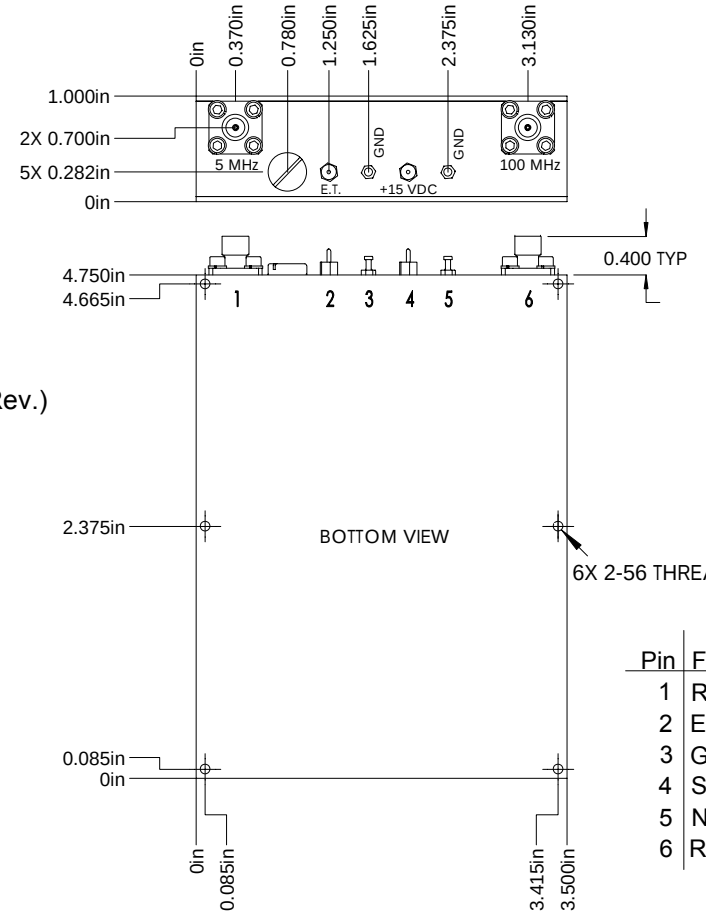
Output Levels

Phase Noise

Temperature Stability

Harmonics, Subs, Spurious

Current – Warm-up and Total Tuning



Pin	Function
1	RF Output 1 (5 MHz)
2	Electrical Tuning
3	Ground
4	Supply Voltage
5	N/C
6	RF Output 2 (100 MHz

Wenzel Associates, Inc.

Austin, Texas

Title: **5 MHz and 100 MHz-SC Sorcerer II**

P/N:	Rev:	Date:	Drawn:	Ref:
501-19250	**-**	**06-13-08**		500-18906

Tolerances: (except as noted) Dimensions are in inches	0.XX Dec:	0.XXX Dec:	FSCM:	Page 1 of 1
	±0.030”	±0.010”	62821	