



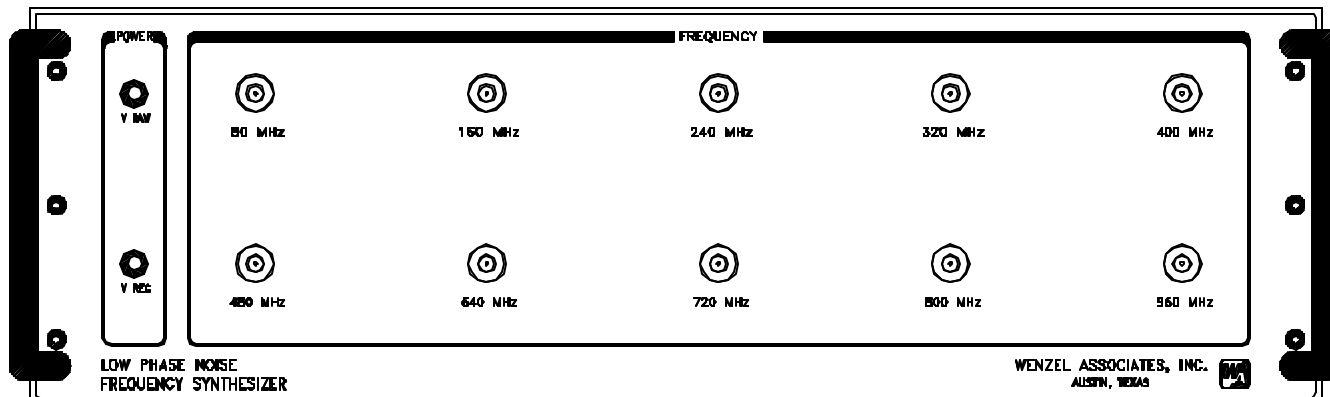
BluePhase Synthesizer

Ultra Low Phase Noise Frequency Synthesizer

WA5400

(80 MHz Input from Source Model 5000 with Option 1)

Outputs: 80, 160, 240, 320, 400, 480, 640, 720, 800, and 960 MHz



OUTPUTS

POWER	+12 dBm $\pm$ 2 dB into 50 Ω with +13 dBm input				
HARMONICS	$\leq$ -25 dBc				
SUB-HARMONICS	$\leq$ -60 dBc				
SPURIOUS	$\leq$ -80 dBc				
PHASE NOISE L(F)	10 Hz	100 Hz	1 KHz	10 KHz	100 KHz
80 MHz	-102 dBc	-132 dBc	-158 dBc	-172 dBc	-173 dBc
160 MHz	-95 dBc	-125 dBc	-151 dBc	-165 dBc	-166 dBc
240 MHz	-92 dBc	-122 dBc	-148 dBc	-162 dBc	-163 dBc
320 MHz	-89 dBc	-119 dBc	-145 dBc	-159 dBc	-160 dBc
400 MHz	-88 dBc	-118 dBc	-144 dBc	-158 dBc	-159 dBc
480 MHz	-86 dBc	-116 dBc	-142 dBc	-156 dBc	-157 dBc
640 MHz	-83 dBc	-113 dBc	-139 dBc	-153 dBc	-154 dBc
720 MHz	-82 dBc	-112 dBc	-138 dBc	-152 dBc	-153 dBc
800 MHz	-82 dBc	-112 dBc	-138 dBc	-152 dBc	-153 dBc
960 MHz	-80 dBc	-110 dBc	-136 dBc	-150 dBc	-151 dBc

REFERENCE INPUT

80 MHz +13 dBm $\pm$ 2 dB into 50 Ω (rear input)

ENVIRONMENT

Laboratory Environment
0 to +50°C Operating Temperature

MECHANICAL

Size	Standard 19" rack mount, 22 deep, 5.25" high
RF Connectors	SMA female
AC Connector	IEC-320, EMI filtered, switched, and fused

POWER

Warm-up Time	1 hour, maximum; 15 minutes, typical (@ +25°C)
AC Power Supply	115 VAC, 50/60 Hz

Wenzel Associates, Inc. • 2215 Kramer Lane. • Austin, Texas 78758 USA

512-835-2038 • fax 512-719-4086

<http://www.wenzel.com> • e-mail: sales@wenzel.com

Model

WA5400

Rev.

A