



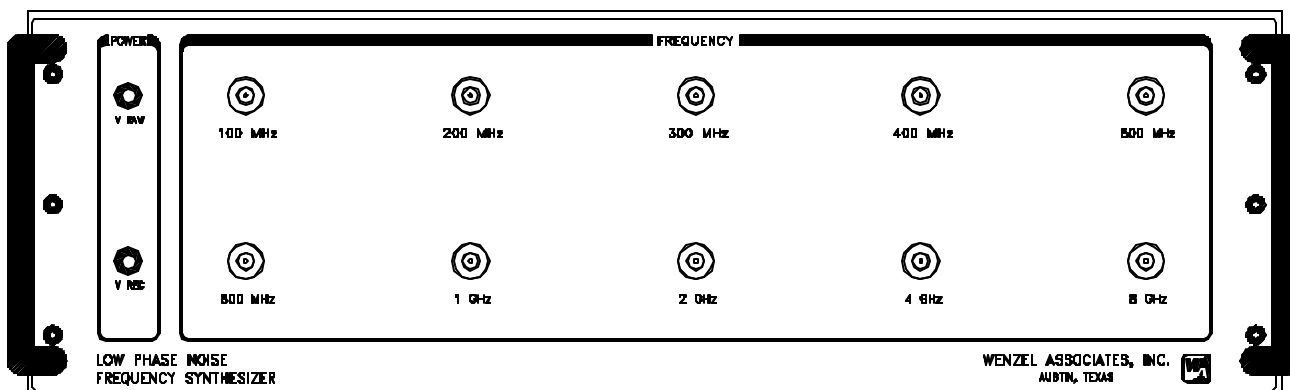
BluePhase Synthesizer

Ultra Low Phase Noise Frequency Synthesizer

WA5300

(100 MHz Input from Source Model 5000 with Option 2)

Outputs: 100, 200, 300, 400, 500 MHz, 1, 2, 4, and 8 GHz



OUTPUTS

POWER	+8 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	1 MHz
100 MHz	-100 dBc	-130 dBc	-156 dBc	-172 dBc	-173 dBc	
200 MHz	-94 dBc	-124 dBc	-150 dBc	-166 dBc	-167 dBc	
300 MHz	-90 dBc	-120 dBc	-146 dBc	-162 dBc	-163 dBc	
400 MHz	-88 dBc	-118 dBc	-144 dBc	-160 dBc	-161 dBc	
500 MHz	-84 dBc	-114 dBc	-142 dBc	-154 dBc	-158 dBc	-172 dBc
800 MHz		-112 dBc	-138 dBc	-154 dBc	-155 dBc	
1 GHz		-107 dBc	-135 dBc	-147 dBc	-151 dBc	-166 dBc
2 GHz		-101 dBc	-129 dBc	-141 dBc	-145 dBc	-160 dBc
4 GHz		-95 dBc	-123 dBc	-135 dBc	-139 dBc	-154 dBc
8 GHz		-89 dBc	-117 dBc	-129 dBc	-133 dBc	-148 dBc

REFERENCE INPUT

100 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

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Model

WA5300

Rev.

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