



RF Systems and Synthesizers > Racked Mounted Chassis Assemblies > WA5100

Features:

- 120 VAC or +18 VDC
- Ultra Low Phase Noise
- Various Frequency Output Options
- 3U 19" Rack Mount

Applications:

- Noise Reference
- Frequency Reference



The WA5100 Frequency Standard is an ultra low noise frequency source that generates and distributes 5, 10, 15, 20, 25, 30, 35, 40, 50, 55MHz signals. Outputs are organized in groups of one output on the front panel and one output on the rear panel, and are easily custom tailored. The system also incorporates power, oven, lock, rail, and level LED detectors for monitoring purposes.

Typical Specifications:		
Reference Input Frequency	5 MHz, +13 dBm +/- 2 dB	
Output Frequencies	5, 10, 15, 20, 25, 30, 35, 40, 50, and 55 MHz	
Output Level	+13 +/- 2 dB into 50 ohms	dBm
Harmonics	<-30	dBc
Sub-Harmonics	<-60	dBc
Spurious	<-80	dBc
Tuning Input (ET)	+/- 1e-6	ppm
Environment Operational	Lab 0 to +50°C	
Crystal Type	SC	
Mechanical		
	Size	Stand. 19" Rack mount, 22" deep, 3U
	RF Connectors	SMA Female
	AC Connector	IEC-320, EMI filtered, switched, and fused
Power		
	Warm-up Time	1 hr., max., 15 min. typical @ +25°C
	AC Power Supply	115 VAC, 50/60 Hz

Phase Noise										
Spec dBc/Hz										
dBc/Hz	5 MHz	10 MHz	15 MHz	20 MHz	25 MHz	30 MHz	35 MHz	40 MHz	50 MHz	55 MHz
10 Hz	-150	-143	-139	-136	-135	-132	-130	-125	-128	-127
100 Hz	-165	-158	-154	-151	-150	-147	-145	-140	-143	-142
1 KHz	-173	-166	-163	-160	-159	-156	-154	-149	-152	-151
10 KHz	-174	-167	-163	-160	-159	-156	-154	-149	-152	-151
100 KHz	-174	-167	-163	-160	-159	-156	-154	-149	-152	-151