



RF Systems and Synthesizers > Racked Mounted Chassis Assemblies > WA5300

Features:

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

Applications:

- Noise Reference
- Frequency Reference



The WA5300 Frequency Standard is an ultra low noise frequency source that generates and distributes 100, 200, 300, 400, 500, 800 MHz, 1, 2, 3, and 4 GHz 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	100 MHz @ +13 dBm +/- 2 dB into 50 ohms, Rear Panel	
Output Frequencies	100, 200, 300, 400, 500, 800 MHz, 1, 2, 4, and 8 GHz	
Output Level	+8 +/- 2 dB into 50 ohms	dBm
Harmonics	<-30	dBc
Sub-Harmonics	<-60	dBc
Spurious	<-80	dBc
Tuning Input (External Reference)	+/- 4e-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	100 MHz	200 MHz	300 MHz	400 MHz	500 MHz	800 MHz	1 GHz	2 GHz	4 GHz	8 GHz
10 Hz	-100	-94	-90	-88	-84					
100 Hz	-130	-124	-120	-118	-114	-112	-107	-101	-95	-89
1 KHz	-156	-150	-146	-144	-142	-138	-135	-129	-123	-117
10 KHz	-172	-166	-162	-160	-154	-154	-147	-141	-135	-129
100 KHz	-173	-167	-163	-161	-155	-155	-148	-142	-136	-130