



RF Systems and Synthesizers > Racked Mounted Chassis Assemblies > WA5400

Features:

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

Applications:

- Noise Reference
- Frequency Reference



The WA5400 Frequency Standard is an ultra low noise frequency source that generates and distributes 80, 160, 240, 320, 400, 480, 640, 720, 800, and 960 MHz 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	80, 160, 240, 320, 400, 480, 640, 720, 800, and 960 MHz	
Output Level	+12 +/- 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	80 MHz	160 MHz	240 MHz	320 MHz	400 MHz	480 MHz	640 MHz	720 MHz	800 MHz	960 MHz
10 Hz	-102	-95	-92	-89	-88	-86	-83	-82	-82	-80
100 Hz	-132	-125	-122	-119	-118	-116	-113	-112	-112	-110
1 KHz	-158	-151	-148	-145	-144	-142	-139	-138	-138	-136
10 KHz	-172	-165	-162	-159	-158	-156	-153	-152	-152	-150
100 KHz	-173	-166	-163	-160	-159	-157	-154	-153	-153	-151