



RF Systems & Synthesizers > Integrated Plate Sub-Assemblies >

10 MHz, 100 MHz, and 1 GHz Plate

Features:

- Ultra Low Phase Noise
- Aging 5e-10/Day Standard
- Exceptional Sub-Harmonics and Spurious Content
- Phase Lockable

Applications:

- Noise Reference
- Frequency Reference
- System Integration



The 10 MHz, 100 MHz, and 1 GHz plate is comprised of two Ultra Low Noise Crystal oscillators (5 MHz & 100 MHz), with which the three outputs are derived from. The unit includes several items from Wenzel's Blue Tops line of RF Modules as well, including amplifiers, multipliers, filters, etc. The system is also setup to accept a 10 MHz input reference for easy synchronization.

Typical Specifications:			
Frequency	10, 100 MHz & 1 GHz		
Input Frequency: 10 MHz, +5 to +12 dBm			
Output Frequency	10 MHz	100 MHz	1 GHz
Output Level (dBm)	+13 +/- 2 dB	+13 +/- 2 dB	+13 +/- 2 dB
Aging			
Per day after 30 days operating, typical	±5e-10	±5e-10	±5e-10
Phase Noise dBc/Hz			
10 Hz	-140	-115	-95
100 Hz	-160	-135	-115
1 kHz	-169	-155	-135
10 kHz	-171	-172	-154
100 kHz	-171	-174	-154
Loop Bandwidth, Typ.	<1 Hz		
Temperature Stability			
0 to +50C	±1e-8		
Harmonics	-30		dBc
Sub-Harmonics	-70		dBc
Spurious	-85		dBc
Warm-up Power	<25		Watts
Total Power @ 25 °C	<18		Watts
Crystal Type	SC		
Dimensions	8 x 15 x 1		inches

