



RF Systems & Synthesizers > Integrated Plate Sub-Assemblies > 10 MHz and 100 MHz Plate

**Features:**

- Ultra Low Phase Noise
- Phase Lockable
- Exceptional Sub-Harmonics and Spurious Content
- System can be reconfigured for other Specific Frequencies.

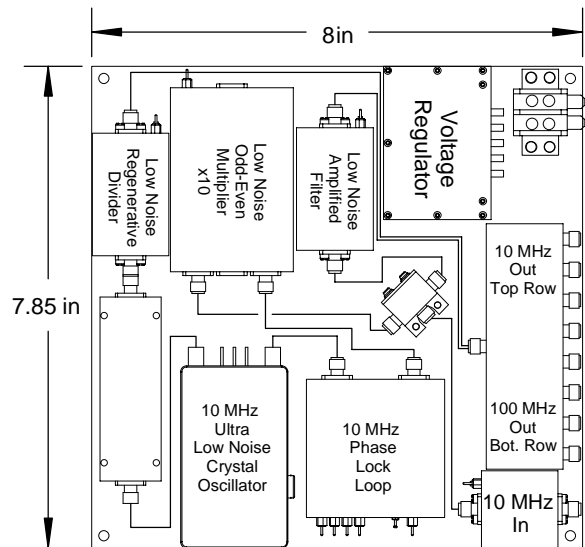
**Applications:**

- Noise Reference
- Frequency Reference
- System Integration

The 10 MHz and 100 MHz plate is comprised of one Ultra Low Noise Crystal oscillator (10 MHz), with which the two 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. This system is setup to accept a 10 MHz input reference for easy synchronization.



Typical Specifications:			
Frequency	10 MHz & 100 MHz		
Input Frequency: 10 MHz, +5 to +12 dBm			
Output Frequency	10 MHz	100 MHz	
Output Level (dBm)	+13 +/- 2 dB	+13 +/- 2 dB	
Aging Per day after 30 days operating, typical	±1e-9	±1e-9	
Phase Noise dBc/Hz			
10 Hz	-140	-100	
100 Hz	-160	-130	
1 kHz	-169	-155	
10 kHz	-174	-173	
100 kHz	-174	-174	
Loop Bandwidth, Typ.	<1 Hz		
Temperature Stability 0 to +50°C	±5e-8		
Harmonics	<-30		dBc
Sub-Harmonics	<-50		dBc
Spurious	<-80		dBc
Supply Voltage	+18 +/- .5		VDC
Warm-up Power	<17		Watts
Total Power @ 25 °C	<15		Watts
Crystal Type	SC		
Dimensions	7.85 x 8 x 1		inches
Connectors	SMAs, female		



**Note: This system can easily be configured for other Specific Output Frequencies.**

**Please Consult Factory**