


Multiple Frequency Comb Generator

The Multiple Frequency Comb Generator can be used in up to the minute particle physics and materials science research. The input signal is amplified to provide power to a comb generator. Frequencies are selected by a switched filter bank. Signal control for AM modulation is provided by way of a voltage variable attenuator and phase shift control through a line stretcher. The signal is then amplified to provide an output at one of 6 frequencies.

Typical applications:

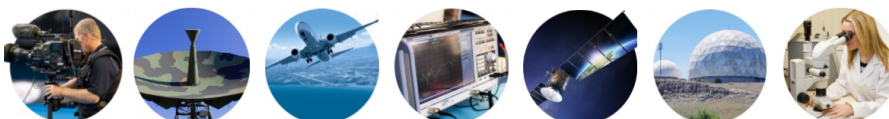
- Input Signal 0.5GHz
- SMA Female
- Frequency Select Switch
- Additional Phase Shifter for use at 2GHz
- 19" 3U Rack Mount

 **Frequency Select Switch**

 **Compact 3U**



 **Input Signal
0.5GHz**



General Specification	
Input Signal	0.5GHz
Input Signal Power	0dBm min, +3dBm max
Output Frequencies	0.5GHz
	1GHz
	1.5GHz
	2GHz
	2.5GHz
	3GHz
Output Power	+ 27dBm (at each frequency)
Amplitude Modulation	Attenuation Control > 70dBc
Modulation Speed	500ns
Output Phase Control	360 deg. An additional mechanical phase shifter will be supplied for use externally when 2GHz output frequency is selected
Controls	Power On/Off with Indicator Frequency Select Switch Lockable Phase Shift Control Knob
Amplitude Modulation Control	BNC Female
RF Input & Output Port	SMA Female
AC Power Input	IEC & Fuse 240V, 50Hz

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.