

Multiple Frequency Comb Generator Instrument

Bench Top - MFG-1001-B

- Bench Top Instrument Case 3U High
- Frequency Select Switch
- Additional Phase Shifter for use at 2GHz



AtlantecRF's Comb Generators 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.

General Specifications	
Input Signal	499.653644MHz
Input Signal Power	0dBm min, +3dBm max.
Output Frequencies:	#1. 1998.614576MHz #2. 3997.229152MHz #3. 4996.536440MHz #4. 5995.843728MHz #5. 7994.458304MHz #6. 9993.072880MHz
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
Options:	
01	Also available in Bench Top Instrument Case 3U High
02	Alternative Output Frequencies
03	Additional Output Frequencies up to 12 in total

We reserve the right to change standard product specifications without notice but will be pleased to consider control drawings for quotation.

Control Components