

## Marx Generator Comparison

Model	Typical Application	Open Circuit Voltage	Approx. Rise Time	Approx. Pulse Width (FWHM)	Source Impedance	Pulse Energy	Marx Peak Power	Marx Rep Rate
MG17-1C-500PF	Direct RF Materials Studies Triggering	510 kV	200 ps	2-3 ns	160 $\Omega$	4 J	400 MW	100 Hz
MG17-1C-940PF	Direct RF Triggering	510 kV	300 ps	12 ns	125 $\Omega$	7 J	520 MW	100 Hz
MG10-1C-2700PF	Direct RF	300 kV	500 ps	15 ns	20 $\Omega$	12 J	1 GW	200 Hz
MG15-3C-940PF	Direct RF	600 kV	400 ps	25 ns	50 $\Omega$	33 J	2.7 GW	200 Hz
MG-15-3C-2700PF	Pulse Coded RF	600 kV	3-5 ns	30 ns	23 $\Omega$	100 J	4 GW	100 Hz
MG40-3C-2700PF	RF, Flash X-Ray	1,600 kV	3-4 ns	40 ns	70 $\Omega$	260 J	10 GW	30 Hz
MG20-22C-2000PF	HPM	1,000 kV	~20 ns	80 ns	18 $\Omega$	1.1 kJ	12 GW	20 Hz
MG20-1C-100NF	HPM	300 kV	20 ns	200 ns	23 $\Omega$	500 J	2 GW	20 Hz
MG20-3C-100NF	HPM	600 kV	90 ns	175 ns	33 $\Omega$	1.8 kJ	5 GW	10 Hz



APELC is the world leader in the development of compact Marx generators, our basis technology. We offer a very wide spectrum of Marx generators, with pulse energies from mJ to kJ, peak voltages from kVs to MVs, and volumes from hand-held to benchtop-sized. Our generators are optimized in their performance and designed for portability.