

**CW DIODE CAVITIES**

MPD manufactures Gunn diode cavities. Varactor tuning can be specified. Power outputs as high as 500 mW are offered. Outputs can be either waveguide flange or coaxial. Custom designed versions available upon request.

Model	Freq. (GHz)	Typical Power Output (mW)	Mech. Tuning Range (MHz)	Varactor Tuning Range (MHz)	Typical Bias Voltage (V)	Typical Bias Current (mA)	Typical Operating Temp. (°C)	Freq. Stability (kHz/°C)	Output Method	Features
C2070 Series	10.5	10 to 200	±250	-	8 to 10	125 to 750	-30 to +70	500	Waveguide	Commercial sources
C2093A	9.0 to 9.5	3 to 10	500	-	10.5	350	-55 to +70	48	SMA	Military local oscillator
C2093N	10.5	300	±25	100	8 to 12	2,000	-40 to +70	52	SMA	Muzzle velocity radar transmitter
C2120 Series	8 to 10.0	10 to 100	±250	5 to 150	9 to 12	110 to 750	-30 to +60	300	Waveguide	Commercial sources
C2120V	8.3 to 10.04	30	1,740	100	11 to 13	700	-40 to +75	-	Waveguide	Military test source
C2138 Series	24.15	10 to 100	-	-	5 to 7	200 to 1,000	-30 to +70	100	Waveguide	Commercial sources
C2200 Series	10.0 to 24.0	10 to 250	±20 to ±400	±1.0 to ±70.0	8 to 15	500 to 1,200	-40 to +70	350	Waveguide or coaxial	Military nav. radar sources
C2300 Series	10.0 to 19.0	50 to 400	±100 to ±500	±1.0 to ±20.0	8 to 15	600 to 1,500	-54 to +75	78	Waveguide or coaxial	Severe environment sources
C-5010 Series	21.0 to 24.0	10 to 60	±400	±20	7	600 to 800	-30 to +60	133	Waveguide or coaxial	Point-to-point datalink sources
C5100 Series	13.0 to 13.3	40 to 50	±100	±1.0	15	700	-40 to +70	91	Waveguide or coaxial	Military nav. radar sources
C6000 Series	24.0 to 40.0	1 to 10	±200 to ±600	±2.0 to ±40.0	3 to 8	200 to 500	-40 to +70	250	Waveguide or coaxial	Military sources

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