

SYLVANIA ELECTRIC

RMA Registration Data

TYPE 5789

MAGNETRON

The Type 5789 is a magnetron for pulse operation. It is of the fixed frequency type and the cavity and magnet are integral parts of the tube.

RATINGS

Maximum Heater Voltage (ac or dc)	7.0	volts
Minimum Cathode Heating Time	240	seconds
Maximum Peak Anode Voltage	14	kilovolts
Maximum Peak Anode Current	20	amperes
Maximum Peak Input Power	240	kilowatts
Maximum Duty Cycle	.0006	
Maximum Pulse Duration	1.0	microsecond
Maximum Anode Temperature	135	degrees centigrade

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

Starting Heater Voltage	6.0	volts
Heater Current at 6.0 Volts	2.0	amperes
Operating Heater Voltage	1.6	volts
Peak Anode Voltage	12	kilovolts
Peak Anode Current	16	amperes
Average Anode Current	4.0	milliamps
Peak Power Output	40	kilowatts
Average Power Output	10	watts
Pulse Duration	0.25	microsecond
Pulse Repetition Rate	1,000	pulses per second
Frequency (fixed)	35,208	megacycles, max
	34,512	megacycles, min
Pulling Figure	30	megacycles
RF Bandwidth	15	megacycles

DIMENSIONS

(See outline, page 2)

from RMA release #760, May 27, 1949

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