RADIO MANUFACTURERS ASSOCIATION

SUITE 701-4 AMERICAN BUILDING
1317 F STREET, N.W.
WASHINGTON, D. C.

R.M.A. DATA BUREAU
90 West Street
New York, N. Y.

Release No. 695

September 25, 1948

To
Tube Engineers:

Registration has been made by the RMA Data Bureau of the vacuum tube type designation

5586 (Registration No. 1534)

as defined by the characteristics and ratings given in the attached data on application of

Raytheon Manufacturing Company
Waltham 54, Mass.

Respectfully yours,

RMA DATA BUREAU

By

LCFHorle/cap

Type 5586 September 7, 1948

Magnetron

(Tenative Data)

General Characteristics

Description: Pulse type, tunable magnetron, external magnet

Mechanical Data

Dimensions: Per attached drawing

Mounting position	Any
Support	Mounting flange
Cooling	Air cooled

Electrical Data

Cathode	Unipotential, oxide coated
Heater voltage	16.0v
Heater current	3.1 amps
Minimum Heating Time	3 minutes

Maximum Ratings

Heater Voltage	16 v. + 10%
Peak Anode Voltage	30 Kv.
Peak Anode Current	70 Amps
Max. Duty Product	.001
Max. Pulse Duration	2.5 us.
Average Input Power	1200 watts
Peak Input Power	2000 Kw.
Frequency Pulling	Δ F. 15 Mc.
Anode Temperature	100 °C
Maximum frequency change due to temperature	.075 Mc/°C

Typical Operation

Gauss	2700
Heater Voltage	16 v. (See note 1)
Recurrence Frequency	1000 pps.
Pulse Duration	1 us.
Peak Anode Voltage	28 kv.
Peak Anode Current	70 amps.
Peak Power Output	800 Kw.
Frequency	2700 to 2900 Mc.

Note 1: Preheat filament for 3 minutes at 16 volts and reduce to 10 volts for operation, immediately after applying high voltage.