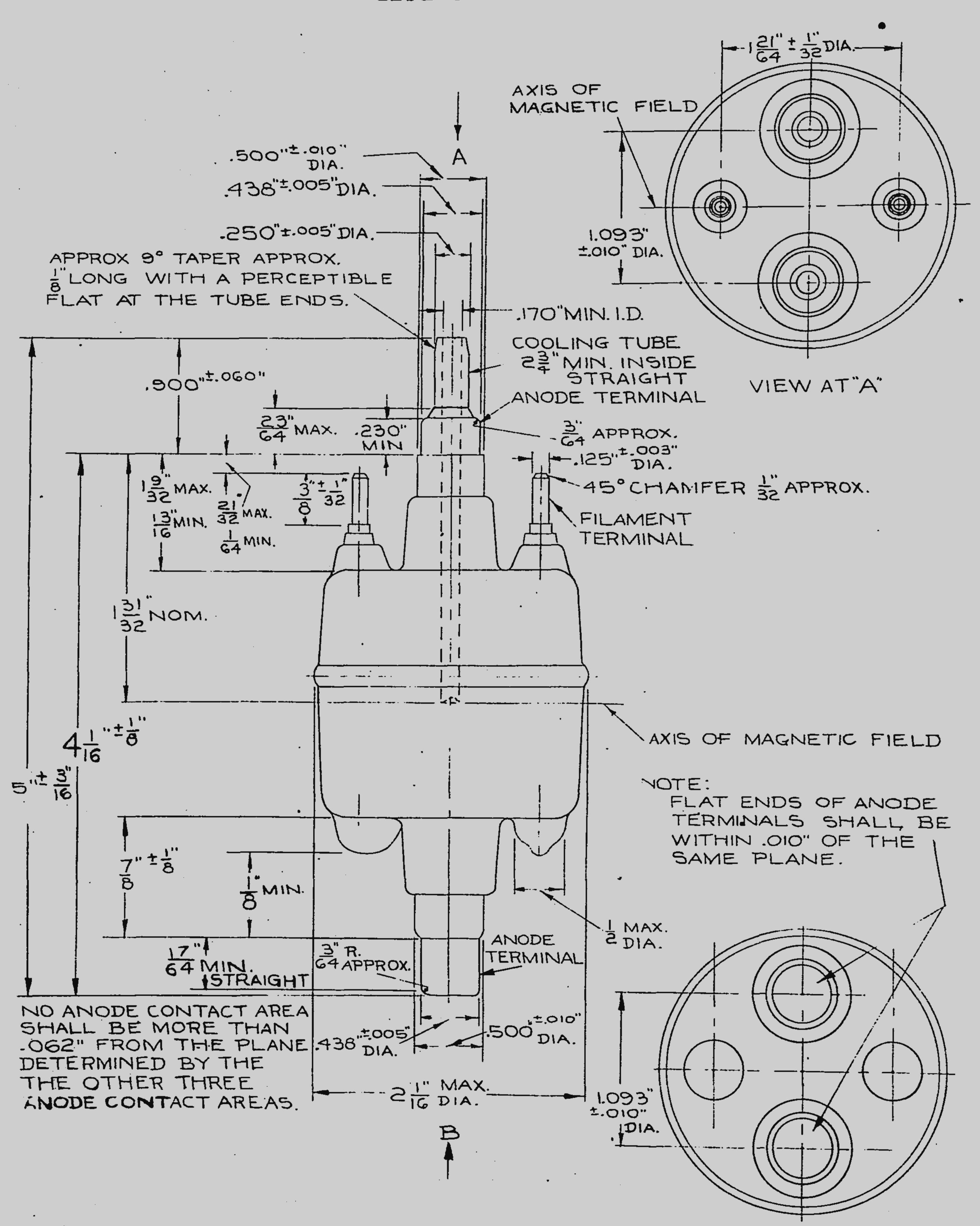
TYPE 5J32





RADIO MANUFACTURERS ASSOCIATION ENGINEERING DEPARTMENT

Release No. 462

January 5, 1946

RMA TYPE
5J32
Magnetron
(External Magnet Required)

GENERAL CHARACTERISTICS

Electrical

Filament - Tungsten
Filament Voltage *
Filament Current maximum
Frequency
Field Strength

2.1 Volts
40 Amperes
90 to 450 Megacycles
1500 Gauss

Mechanical

Dimensions (See outline K-8639335)

Type of Cooling
Anode, liquid cooling
Maximum Outlet Temperature

Liquid and Forced-air 1 Quart Per Minute 70 C

Seals

Forced-air cooling shall be provided so that the maximum seal temperature shall not exceed 150 C.

Mounting Position - Any

MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

D-C Plate Voltage #	Typical Operation			Maximum Ratings	
	1400	1600	2100	2500	Volts
Plate Dissipation				400	Watts
Plate Input	500	500	5 00	600	Watts
D-C Plate Current	350	310	240	450	Milliamperes
Conversion Efficiency, approximate	20	40	25		Per Cent
Power Output	100	200	125		Watts
Frequency	- 90	300	450		Megacycles
Duty	CW	CW	CW		CW

- The filament supply should provide 0 to 2.5 volts, continuously variable, at 40 amperes. In operation Ef should be adjusted to the lowest value consistent with optimum operation, then maintained accurately. During starting If should never exceed 60 amperes.
- The plate supply should have sufficiently poor regulation or series resistance to permit stable operation and prevent excessive plate dissipation. The tube should be operated with optimum loading at all times. Either overloading or insufficient loading may result in undesirable operation or damage to the tube due to excessive radio-frequency voltage across the seals.