SYLVANIA

engineering data service

electronics division

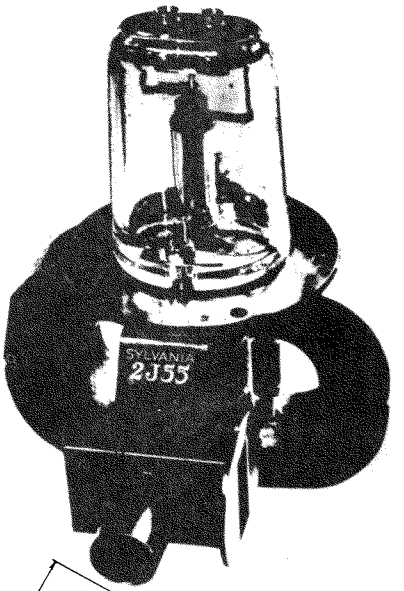
SYLVANIA

2J55

DESCRIPTION:

The Sylvania 2J55 is a fixed frequency (centered at 9375 mc.) pulsed magnetron featuring a compact construction, high stability, and adaptability to a wide range of applications in the X-Band.

Typical applications are search and navigational radars.



*MAXIMUM RATINGS:

Filament voltage	6.3—10%
Peak Anode Voltage	16 kv.
Av. Power Input	180 watts
Duty Cycle	.001
Pulse Duration	2.5 μ sec.

*The above ratings are not intended to be applied simultaneously; they represent maximum values for each paramenter and should serve as a guide to the system designer.

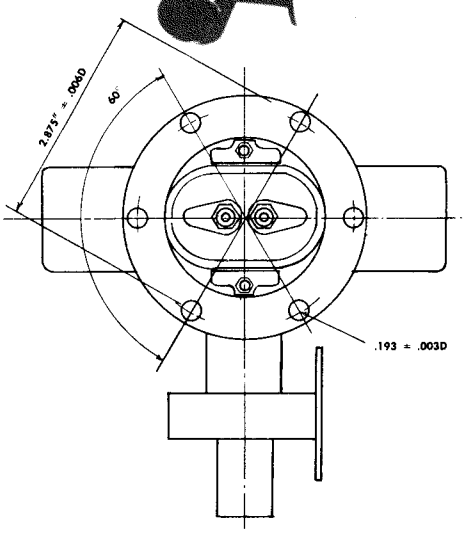
TYPICAL OPERATING CONDITIONS:

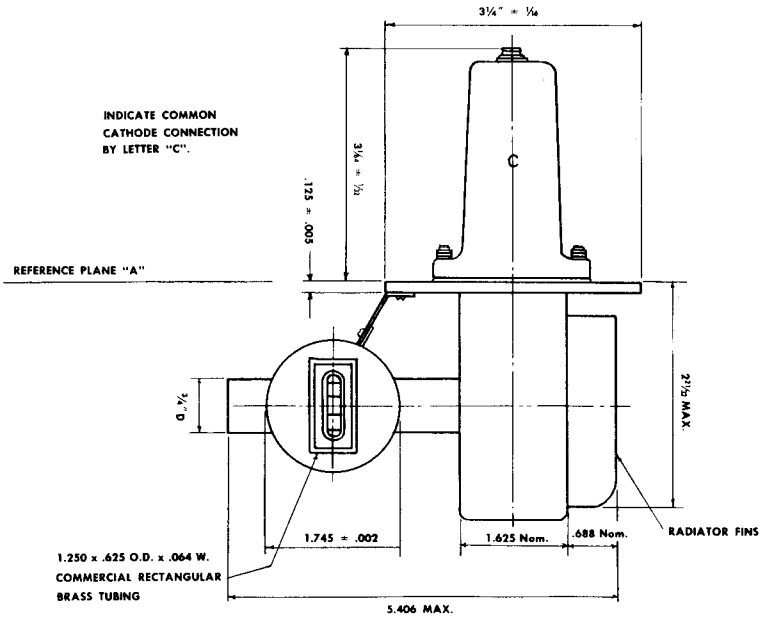
Warm-up Time	120 sec.
Filament Voltage	* * 0
Pulse Repetition Rate	1.0 μ sec.
Peak Anode Voltage	12 kv.
Peak Anode Current	12 amp.
Peak Power Output	45 kw.

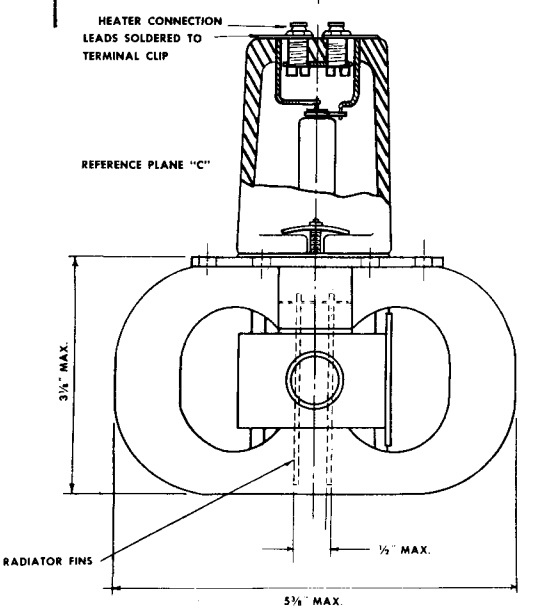
**6.3 volts applied during warm-up

$$E_f = 6.3\sqrt{1-\frac{P_i}{150}}$$

Therefore $E_f = O$ if P_i is greater than 150.







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2J55 Rieke Diagram

Iav = 12 ma.
Pulse width = 1 us
Duty Cycle = .001
Double Line Indicates
Flange Position