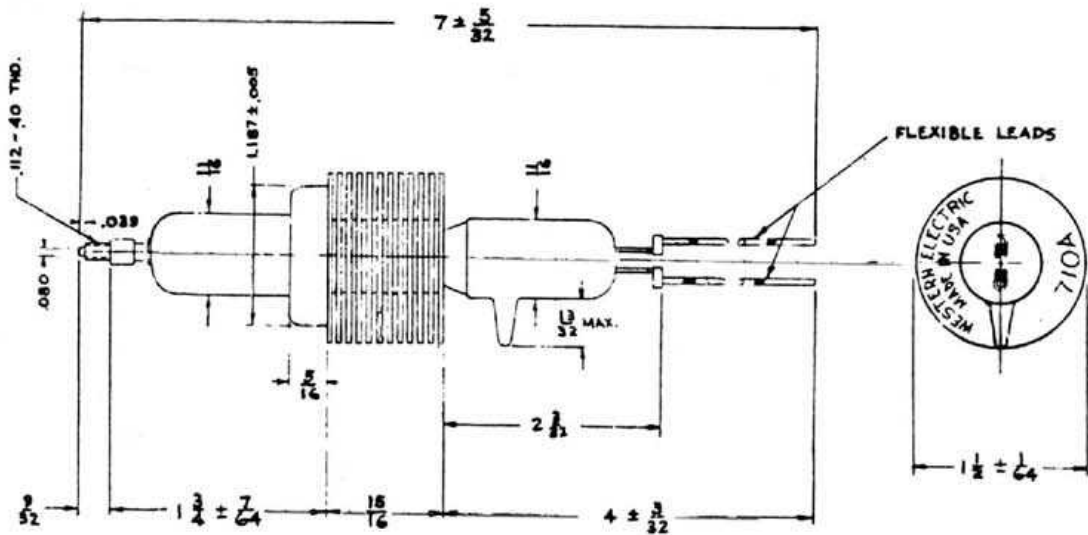


CONFIDENTIAL

TECHNICAL INFORMATION

WESTERN ELECTRIC 710A VACUUM TUBE



ALL DIMENSIONS WITHOUT LIMITS ARE NOMINAL

CLASSIFICATION

The 710A vacuum tube is a high vacuum filamentary air cooled triode suitable for oscillator-amplifier use at frequencies up to 300 megacycles.

MOUNTING AND CONNECTIONS

The tube must be mounted with its filament axis in a vertical position and supported from its anode cooling fins. The grid terminal is a threaded rod at one end of the tube and the filament terminals are two flexible leads at the opposite end of the tube. A stream of air sufficient to keep the temperature of the anode cooling fins below 150° C must be supplied. (From 4 to 6 cu.ft. per minute through fins, dependent upon ambient temperature and elevation - pressure drop 1.5" H₂O approximately.)

FILAMENT - Thoriated Tungsten

Filament Voltage	8.25 volts a-c or d-c
Nominal Filament Current	7.1 amperes
Nominal Thermionic Emission	4 amperes

AVERAGE CHARACTERISTIC

at a plate voltage of 1000 volts d-c and plate current of 100 milliamperes	
Grid Bias	-22 volts
Amplification Factor	16
Transconductance	3300 micromhos

INTERELECTRODE CAPACITIES

Grid to Plate	3.8 μf
Grid to Filament	2.5 μf
Plate to Filament	0.75 μf

OPERATION

Maximum Ratings	
Maximum Plate Voltage	10,000 volts
Maximum Grid Voltage	-2,500 volts
Maximum Plate Dissipation	80 watts
Maximum Cooling Fin Temperature	150° C