POWER AMPLIFIER TRIODE TYPE 7565

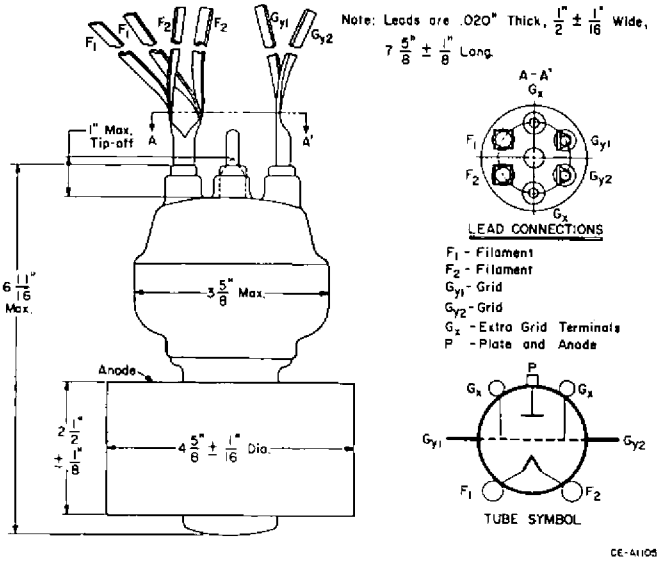
The 7565 is a three electrode tube designed for use as a modulator or amplifier. The anode is capable of dissipating 4 kilowatts of power in Continuous Commercial Service. Cooling is accomplished by forced air. The cathode is a thoriated tungsten filament. Maximum ratings apply for audio frequencies.

ELECTRICAL:

	Min.	Bogey	Max.	
Filament Voltage	5.7	6.0	6.3	Volts
Filament Current	57	60	63	Amperes
Filament Starting Current	--	--	300	Amperes
Filament Resistance, (cold)	--	.016	--	Ohms
Amplification Factor	--	6.0	--	
Direct Interelectrode Capacitances (Avg.):				
Grid-Plate			14	μμf
Grid-Filament			15	μμf
Plate-Filament			1.5	μμf

MECHANICAL:

Mounting Position	Vertical, Anode Up or Down		
Type of Cooling	Forced Air		
Maximum Incoming Air Temperature	45 °C		
Required Air Flow on Anode:			
Per Cent Plate Dissipation Rating	100	75	50
Air Flow-Cubic Feet per Minute	300	200	125
Static Pressure-Inches of Water	2.5	1.25	0.7
Required Air Flow on Filament	Air flow through radiator is normally sufficient		
Maximum Glass Temperature	160 °C		
Net Weight, approximate	4-7/8 lbs.		
Shipping Weight, approximate	10 lbs.		



AUDIO FREQUENCY POWER AMPLIFIER AND MODULATOR-CLASS A

MAXIMUM RATINGS:

Absolute Maximum Values			
DC Plate Voltage	8.0	max.	Kilovolts
Negative DC Grid Voltage	1000	max.	Volts
Plate Input	4.0	max.	Kilowatts
Plate Dissipation	4.0	max.	Kilowatts

TYPICAL OPERATING CHARACTERISTICS:

DC Plate Voltage	4500	Volts
DC Grid Voltage	-570	Volts
Peak AF Grid Voltage	570	Volts
Peak AF Plate Voltage	2700	Volts
DC Plate Current	0.88	Amperes
Load Resistance	4500	Ohms
2nd Harmonic Distortion (approx.)	3.8	Per Cent
Power Output	950	Watts

AUDIO FREQUENCY POWER AMPLIFIER AND MODULATOR CLASS AB

MAXIMUM RATINGS (PER TUBE):

Absolute Maximum Values	CCS		
DC Plate Voltage	8.0	max.	Kilovolts
DC Plate Current	2.5	max.	Amperes
Negative DC Grid Voltage	1500	max.	Volts
Plate Input	8.0	max.	Kilowatts
Plate Dissipation	4.0	max.	Kilowatts

TYPICAL OPERATING CHARACTERISTICS:
(Unless Otherwise Specified, Values are for Two Tubes)

DC Plate Voltage	7.0	Kilovolts
DC Grid Voltage	-1140	Volts
Peak AF Grid to Grid Voltage	2280	Volts
Zero Signal Plate Current	0.5	Amperes
Maximum Signal DC Plate Current	2.2	Amperes
Peak AF Plate to Plate Voltage	9.2	Kilovolts
Effective Load Resistance (Plate to Plate)	5100	Ohms
Maximum Signal Driving Power	0	Watts
Maximum Signal Power Output	7.7	Kilowatts
Total Harmonic Distortion (Approx.)	4.5	Per Cent

AVERAGE PLATE CHARACTERISTICS