



7C5-LT

BEAM POWER AMPLIFIER (TENTATIVE DATA)

HEATER VOLTAGE (A.C. or D.C.)	6.3 [□]	Volts
HEATER CURRENT	0.45 ^{□□}	Ampere
MAXIMUM OVERALL LENGTH	3-3/8"	
MAXIMUM SEATED HEIGHT	2-27/32"	
MAXIMUM DIAMETER	1-1/4"	
BULB	T-9	
BASE	Small Wafer Octalox	8-Pin with Sleeve
BASING DESIGNATION	6AA	

☐ Nominal value is 7 volts.
☐ Nominal value is 0.48 ampere.

Single-Tube Amplifier - Class A₁

PLATE VOLTAGE			315 max.*	Volts
SCREEN VOLTAGE			250 max.*	Volts
PLATE DISSIPATION			12 max.*	Watts
SCREEN DISSIPATION			2 max.*	Watts
TYPICAL OPERATION:				
Heater Voltage #	6.3	6.3	6.3	Volts
Plate Voltage	180	250	315	Volts
Screen Voltage	180	250	225	Volts
Grid Voltage ##	-8.5	-12.5	-13	Volts
Peak A-F Grid Voltage	8.5	12.5	13	Volts
Zero-Signal Plate Current	29	45	34	Milliamperes
Max.-Signal Plate Current	30	47	35	Milliamperes
Zero-Signal Screen Current	3	4.5	2.2	Milliamperes
Max.-Signal Screen Current	4	7	6	Milliamperes
Plate Resistance	58000	52000	77000	Ohms
Transconductance	3700	4100	3750	Micromhos
Load Resistance	5500	5000	8500	Ohms
Total Harmonic Distortion	8	8	12	Per Cent
Max.-Signal Power Output	2	4.5	5.5	Watts

Push-Pull Amplifier - Class AB₁

PLATE VOLTAGE		315 max.*	Volts
SCREEN VOLTAGE		250 max.*	Volts
PLATE DISSIPATION		12 max.*	Watts
SCREEN DISSIPATION		2 max.*	Watts
TYPICAL OPERATION:			
<i>Values are for 2 tubes</i>			
Heater Voltage #		6.3	Volts
Plate Voltage		250	Volts
Screen Voltage		250	Volts
Grid Voltage ##		-15	Volts
Peak A-F Grid-to-Grid Voltage		30	Volts
Zero-Signal Plate Current		70	Milliamperes
Max.-Signal Plate Current		79	Milliamperes
Zero-Signal Screen Current		5	Milliamperes
Max.-Signal Screen Current		13	Milliamperes
Effective Load Resistance (Plate to plate)		10000	Ohms
Total Harmonic Distortion		5	Per Cent
Max.-Signal Power Output		10	Watts

* Design maximum for 117-volt line.

In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

The type of input coupling used should not introduce too much resistance in the grid circuit. Transformer- or impedance-input coupling devices are recommended. When the grid circuit has a resistance not higher than 0.05 megohm, fixed bias may be used; for higher values, cathode bias is required. With cathode bias, the grid circuit may have a resistance not to exceed 0.5 megohm.

Operating Position

Any

Pin Connections

Pin 1 - Heater	Pin 6 - Grid
Pin 2 - Plate	Pin 7 - Cathode
Pin 3 - Screen	Pin 8 - Heater
Pin 4 - No Connection	Plug - No Connection
Pin 5 - No Connection	

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(Pin numbers are according to RMA system)