

7B5

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TEMPERATURE DATA
RAYTHEON TYPE 7B5

PENTODE
POWER AMPLIFIER
Heater Type
Glass Bulb Loktal Base

The 7B5 is a pentode type power amplifier tube designed for service in the output stage of storage battery or a-c operated receivers.

NOMINAL RATINGS

Heater Voltage (a-c or d-c)
Heater Current
Maximum Plate Voltage
Maximum Screen Voltage

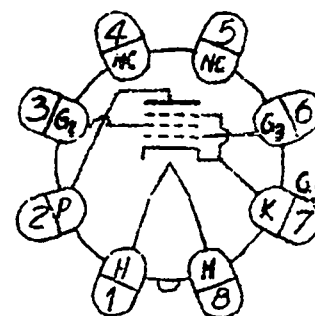
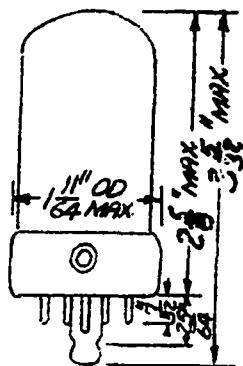
7.0 volts
0.43 amp
250 volts
250 volts

TYPICAL AMPLIFIER - CLASS A CONDITIONS

Heater Voltage	6.3	6.3	6.3	6.3	volts
Plate Voltage	100	135	180	250	volts
Screen Voltage	100	135	180	250	volts
Grid Bias	-7	-10	-13.5	-18 *	volts
Amplification Factor (approx.)	150	150	150	150	
Plate Resistance (approx.)	103500	94000	81000	68000	ohms
Transconductance	1450	1300	1850	2200	umhos
Plate Current	9	12.5	18.5	32	ma
Screen Current	1.6	2.2	3	5.5	ma
Load Resistance	12000	10400	9000	7600	ohms
Total Harmonic Distortion	10	10	10	10	percent
Power Output	0.33	0.75	1.5	3.4	watts

Transformer or impedance input coupling devices are recommended. If resistance coupling is used, the d-c resistance in the grid circuit should not exceed 1 megohm with self-bias, or 0.1 megohm with fixed bias.

* A bias of -18.5 volts and load resistance of 7000 ohms will give power output of 3.2 watts with 7% total harmonic distortion.



BOTTOM VIEW OF SOCKET