

12B7

TENTATIVE DATA
RAYTHEON TYPE 12B7

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PENTODE
REMOTE CUTOFF AMPLIFIER
Heater Type
Glass Bulb Locking Base

The 12B7 is a pentode type amplifier tube with remote cutoff characteristics designed for use as a high frequency amplifier in radio receivers.

BULB: T-9 Glass

BASE: Locking 8-Pin

DIMENSIONS

Maximum Overall Length	2 25/32	inches
Maximum Seated Height	2 1/4	inches
Maximum Diameter	1 3/16	inches

BASING (RMA Numbering)

Pin 1 - Heater
Pin 2 - Plate
Pin 3 - Screen (G₂)
Pin 4 - Suppressor (G₃)
Pin 5 - Internal Shield
Pin 6 - Control Grid (G₁)
Pin 7 - Cathode
Pin 8 - Heater

8V

RATINGS

Heater Voltage (a-c or d-c)	12.6	volts
Heater Current	0.15	amp
Maximum Plate Voltage	250	volts
Maximum Screen Voltage	100	volts

DIRECT INTERELECTRODE CAPACITANCES

G ₁ to P (Grid to Plate)	✓ 0.005 max.	μmf
G ₁ to All Other Electrodes Except P (Input Electrode)	✓ 5.5	μmf
P to All Other Electrodes Except G ₁ (Output Electrode)	✓ 7.0	μmf

TYPICAL AMPLIFIER - CLASS A CONDITIONS

Heater Voltage (a-c or d-c)	12.6	✓ 12.6	volts
Plate Voltage	100	250	volts
Screen Voltage	100	✓ 100	volts
Grid Bias	-5	✓ -3	volts
Suppressor Voltage	0	✓ 0	volts
Plate Resistance (Approx.)	0.25	✓ 0.8	megohm
Transconductance	1900	✓ 2000	μmhos
Plate Current	8.9	✓ 9.2	ma
Screen Current	2.6	✓ 2.4	ma
Grid Bias (Approx.)			
(For Transconductance = 10 μmhos)	-	✓ -35	volts