RMA Release # 1 9 2

12B7 TENTATIVE DATA 12B7
RAYTHEON TYPE 12B7

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 (G_2)
Pin 4 - Suppressor (G_3)
Pin 5 - Internal Shield
Pin 6 - Control Grid (G_1)
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.	µµf
G_1 to All Other Electrodes Except P (Input Electrode)	5.5	µµf
P to All Other Electrodes Except G_1 (Output Electrode)	7.0	µµf

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	-3	-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)	-	-55	volts