GENERAL DESCRIPTION

APPLICATION:

The Hytron Bantam 138GT is a filament type, triple-purpose diode-triode detector audio voltage amplifier and output Beam Pentode power amplifier in one envelope. The primary purpose for the combination is for the conservation of space in portable compact receivers.

The Hytron Bantam 188GT is a glass tube enclosed in a T9 bulb equipped with a small octal wafer base with metal sleeve. The sleeve is connected to the #1 base pin for the purpose of shielding. Electrically the 138GT consists of a 1155GT and a 1155GT mounted side by side, the filaments connected in parallel.

PHYSICAL CHARACTERISTICS: BULB T9-C Basing Designation 8AV

RATINGS AND CHARACTERISTICS

Filament Voltage (D.C.) 1.4 volts
Filament Current 0.1 amp.

(Pentode Section - Class A, Amplifier)

Plate Voltage 90 67.5 62.5 45.5 volts
Screen Voltage 90 67.5 62.5 45.0 volts
Control Grid Voltage -6.0 -4.5 -4.5 -3.0 volts
Plate Current 6.3 4.2 4.1 2.2 ma.
Screen Current 1.4 1.2 1.2 .8 ma.
Mutual Conductance 1150 900 850 750 umhos
Load Resistance 14000 16000 16000 20000 ohms
Power Output 210 100 90 30 mw
Total Harmonic Distortion 8.5 9.5 10.5 9.5 %

(Triode Section - Class A1 Amplifier)

Plate Voltage 90 volts
Grid Bias 0 ma.
Plate Resistance 0.24 megohm
Transconductance 275 umhos
Plate Current 0.15 ma.

(DIODE UNIT)

The diode is located at the negative end of the filament and is independent of the triode unit and pentode unit except for the common filament.

BASE PIN CONNECTIONS

Pin 1 - Shell  Pin 6 - Triode Plate
Pin 2 - Filament #  Pin 7 - Filament
Pin 3 - Pentode Plate  Pin 8 - Diode Plate
Pin 4 - Pentode Screen  Cap - Triode Grid
Pin 5 - Pentode Grid

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