MECHANICAL DATA
Bulb ........................................ T-12
Base ........................................ B7-12 Medium Shell Octal, 7-Pin
or, B7-119, Short Medium Shell Octal, 7-Pin
Outline ...................................... (See Drawing)
Basing ....................................... 7S
Cathode ..................................... Coated Unipotential
Mounting Position ......................... Any

ELECTRICAL DATA

HEATER CHARACTERISTICS
Heater Voltage ............................. 6.3 Volts
Heater Current ................................ 1.25 Amperes
Heater Cathode Voltage
Heater Negative with Respect to Cathode 180 Volts Max.
Heater Positive with Respect to Cathode 180 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES (Approx.)
Grid No. 1 to Plate ......................... 0.66 µµF
Input ........................................ 12.0 µµF
Output ...................................... 7.5 µµF

RATINGS (Design Center Values)
Plate Voltage ................................ 200 Volts Max.
Plate Dissipation ......................... 12.5 Watts Max.
Grid No. 2 Supply Voltage .............. 200 Volts Max.
Grid No. 2 Voltage ......................... See Rating Chart
Grid No. 2 Dissipation ................... 1.75 Watts Max.
Grid No. 1 Circuit Resistance
Fixed Bias .................................. 0.1 Megohm Max.
Cathode Bias ................................ 0.5 Megohm Max.

CHARACTERISTICS AND TYPICAL OPERATION (Single Tube)
Class A1 Amplifier
Plate Voltage .............................. 135 200 Volts
Grid No. 2 Voltage ......................... 135 135 Volts
Grid No. 1 Voltage ......................... -13.5 -14 Volts
Peak A.F. Grid No. 1 Voltage .......... 13.5 14 Volts
Zero Signal Plate Current .............. 58 61 Ma
Maximum Signal Plate Current ......... 60 66 Ma
Zero Signal Grid No. 2 Current ....... 3.5 2.2 Ma
Maximum Signal Grid No. 2 Current .. 11.5 9 Ma
Plate Resistance (approx.) .......... 9,300 18,300 Ohms
Transconductance ....................... 7,000 7,100 µµhos
Load Resistance ......................... 2,000 2,600 Ohms
Maximum Signal Power Output ...... 3.6 6 Watts
Total Harmonic Distortion (approx.) 10 10 Percent

Sylvania Electric Products Inc.
Radio Tube Division
Emporium, Pa.
Prepared and Released By The
Technical Publications Section
Emporium, Pennsylvania
February, 1955
Page 1 Of 4
AVERAGE PLATE CHARACTERISTICS

CURRENT IN MILLIAMPERES

PLATE VOLTAGE

Ef = RATED VALUE
Ec2 = 135 VOLTS
AVERAGE PLATE CHARACTERISTICS
TRIODE CONNECTED

CURRENTS IN MILLIAMPERES

PLATE VOLTAGE

E_{f} = RATED VALUE
GRID NO. 2 CONNECTED TO PLATE
GRID NO. 2 RATING CHART

SCREEN GRID INPUT EXPRESSED AS PER CENT OF MAX. SCREEN GRID INPUT RATING

SCREEN GRID VOLTAGE EXPRESSED AS PER CENT OF MAX. SCREEN GRID SUPPLY VOLTAGE RATING