Diode—Remote-Cutoff Pentode
7-Pin Miniature Type

GENERAL DATA

Electrical:
Heater, for Unipotential Cathode:
  Voltage. 12.6 ac or dc volts
  Current. 0.15 amp

Mechanical:
Mounting Position. Any
Maximum Overall Length. 2-1/8"
Maximum Seated Length. 1-7/8"
Length, Base Seat to Bulb Top (Excluding tip). 1-1/2" ± 3/32"
Maximum Diameter. 3/4"
Dimensional Outline. See General Section
Bulb. T-5-1/2
Base. Small-Button Miniature 7-Pin (JETEC No.E7-1)
Basing Designation for BOTTOM VIEW. 7EA

Pin 1—Cathode, Pentode
Pin 5—Pentode Plate
Grid No.3
Pin 6—Pentode
Plate
Pin 2—Diode Grid No.2
Plate
Pin 3—Heater Grid No.1
Pin 4—Heater

PENTODE UNIT - Class A1 Amplifier

Maximum Ratings, Design-Center Values:
PLATE VOLTAGE. 300 max. volts
GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE. 300 max. volts
GRID-No.2 VOLTAGE. See Grid-No.2 Input Rating Chart at front of Receiving Tube Section
GRID-No.1 (CONTROL-GRID) VOLTAGE:
  Positive bias value. 0 max. volts
PLATE DISSIPATION. 2.5 max. watts
GRID-No.2 INPUT:
  For grid-No.2 voltages up to 150 volts. 0.3 max. watt
  For grid-No.2 voltages between 150 and 300 volts. See Grid-No.2 Input Rating Chart at front of Receiving Tube Section
PEAK HEATER-CATHODE VOLTAGE:
  Heater negative with respect to cathode. 100 max. volts
  Heater positive with respect to cathode. 100 max. volts

Characteristics:
Plate Voltage. 250 volts
Grid-No.2 Voltage. 100 volts
Grid-No.1 Voltage. -2 volts
Plate Resistance (Approx.). 0.8 megohm
Transconductance. 2200 μmhos
DIODE—REMOTE-CUTOFF PENTODE

Plate Current: 9.6 ma
Grid-No.2 Current: 2.6 ma
Grid-No.1 Voltage (Approx.) for transconductance of 10 μmhos: -32 volts

Maximum Circuit Values:
Grid-No.1-Circuit Resistance:
For cathode-bias operation: 1.0 max. megohm
For fixed-bias operation: 0.25 max. megohm

DIODE UNIT

Maximum Ratings, Design-Center Values:
PLATE CURRENT: 1.0 max. ma

AVERAGE PLATE CHARACTERISTIC
DIODE UNIT

E_P = 12.6 VOLTS

PLATE MILLIAMPERES

92CM-9010T

DC PLATE VOLTS

TENTATIVE DATA
12CR6
AVERAGE CHARACTERISTICS
PENTODE UNIT

$E_F = 12.6$ VOLTS
PLATE VOLTS = 250
GRID-№2 VOLTS = 100

TRANSCONDUCTANCE ($g_m$) - MICROMHRS

PLATE ($I_D$) OR GRID-№2 ($I_{C2}$) MILLIAMPERES

GRID-№1 VOLTS

-35 -30 -25 -20 -15 -10 -5 0

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-9004