

MECHANICAL DATA

Style miniature
 Cathode coated unipotential
 Bulb T-5 1/2
 Base E7-1, Miniature Button 7 Pin
 Outline 5-2
 Maximum Diameter 3/4 inch
 Maximum Overall Length 2 1/8 inches
 Maximum Seated Height 1 7/8 inches

Mounting Position any
 Basing 7BF
 Connections:
 Pin 1 - #2 plate
 Pin 2 - #1 plate
 Pin 3 - heater
 Pin 4 - heater
 Pin 5 - #1 grid
 Pin 6 - #2 grid
 Pin 7 - cathode

ELECTRICAL DATA

GENERAL

Heater Voltage (ac or dc) 6.3 volts
 Heater Current 350 ma

Direct Interelectrode Capacitances:
 Grid to Plate(1) 1.3 μ mf
 Input(1) 2.0 μ mf
 Output, Section #1 0.45 μ mf
 Output, Section #2 0.34 μ mf

RATINGS(2) - Absolute Values

Heater Voltage 6.3($\pm 10\%$) volts
 Maximum Plate Voltage (dc) 330 volts
 Maximum Cathode Current(1) 22 ma
 Maximum Plate Dissipation(1) 1.6 watts
 Maximum Heater-Cathode
 Voltage ± 200 volts

CHARACTERISTICS(1)

Conditions:
 Heater Voltage 6.3 6.3 volts
 Plate Voltage(dc) ... 300 100 volts
 Grid Voltage -16 --- volts
 Cathode Bias
 Resistor(3) 0 50 ohms
 Plate Current 0.1 max. 9.0 ma
 Transconductance 6,400 μ mhos
 Amplification Factor 38

Noise Output Voltage(4),
 maximum 125 mv

Notes

- (1) Each section.
- (2) Limitations beyond which normal tube performance and tube life may be impaired.
- (3) Value is for both sections operating simultaneously.
- (4) Across plate resistor of 2,000 ohms, at plate voltage of 250 volts, grid voltage of -8 volts, with applied vibrational acceleration of 10 g at 50 cycles per second, sections in parallel.

from RTMA release #1179, April 17, 1953