

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 5 - #1 grid
Pin 2 - #1 plate Pin 6 - #2 grid
Pin 3 - heater Pin 7 - cathode
Pin 4 - heater

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 f
Input(1) 2.0 μ f
Output, Section #1 0.45 μ f
Output, Section #2 0.34 μ f

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