

7T7

IDENTIFIATIVE DATA  
RAYTHEON TYPE 7T7

7T7

PENTODE  
SHARP CUTOFF AMPLIFIER  
Heater Type

The 7T7 is a pentode type amplifier tube with sharp cutoff characteristics designed for use as a high frequency amplifier in radio receivers.

BULB: T-9 Glass

MOUNTING POSITION: Any

BASE: Locking-In 8-Pin

DIMENSIONS

Maximum Overall Length	2 5/32	inches
Maximum Seated Height	2 1/4	inches
Maximum Diameter	1 5/16	inches

BASING (RMA Designation 8V-15)

Pin 1 - Heater	Pin 5 - Internal Shield
Pin 2 - Plate	Pin 6 - Control Grid (G <sub>1</sub> )
Pin 3 - Screen (G <sub>2</sub> )	Pin 7 - Cathode
Pin 4 - Suppressor (G <sub>3</sub> )	Pin 8 - Heater

RATINGS \*

Heater Voltage (a-c or d-c)	6.3	volts
Heater Current	0.5	amp
Maximum Plate Voltage	300	volts
Maximum Screen Supply Voltage	300	volts
Maximum Screen Voltage	150	volts
Maximum Plate Dissipation	3	watts
Maximum Screen Dissipation	0.7	watt

DIRECT INTERELECTRODE CAPACITANCES

G <sub>1</sub> to P (Grid to Plate)	0.005 max.	μμf
G <sub>2</sub> to All Other Electrodes Except P (Input)	7.5	μμf
P to All Other Electrodes Except G <sub>1</sub> (Output)	5.5	μμf

TYPICAL AMPLIFIER OPERATION - CLASS A<sub>1</sub>

Heater Voltage	6.3	6.3	volts
Plate Voltage	100	250	volts
Screen Voltage	100	150	volts
Grid Bias	-1	-1	volts
Plate Resistance (Approx.)	0.55	0.9	megohm
Transconductance	4000	4900	μmhos
Plate Current	5.3	10.8	ma
Screen Current	2.1	4.1	ma
Grid Bias for Plate Current Cut-off	-4	-5.5	volts

\* For interpretation of ratings, see "Receiving Tube Ratings". (CS-1800)