

14AF7
Description and Rating
TWIN TRIODE

GENERAL DESCRIPTION

Principal Application: The 14AF7 is a medium- μ twin triode designed for use as a voltage amplifier

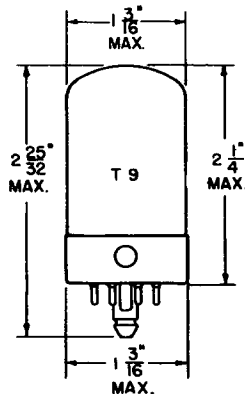
Cathode: Coated Unipotential
Heater Voltage (A-C or D-C) 12.6 Volts
Heater Current 0.15 Ampere
Envelope: T-9 Glass
Base: D6-I Locking-In 8-Pin
Mounting Position: Any

or oscillator. Except for heater rating the 14AF7 and the 7AF7 are identical.

Direct Interelectrode Capacitances: *

Grid to Plate (Each Section)	2.3 $\mu\mu\text{f}$
Input (Each Section)	2.2 $\mu\mu\text{f}$
Output (Each Section)	1.6 $\mu\mu\text{f}$
Grid Number 1 to Grid Number 2 (Max)	0.2 $\mu\mu\text{f}$
Plate Number 1 to Plate Number 2 (Max)	0.6 $\mu\mu\text{f}$
Grid Number 1 to Plate Number 2 (Max)	0.06 $\mu\mu\text{f}$
Grid Number 2 to Plate Number 1 (Max)	0.1 $\mu\mu\text{f}$

PHYSICAL DIMENSIONS

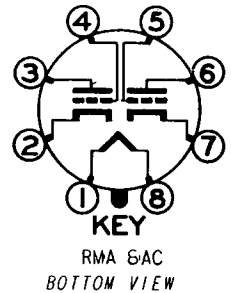


RMA 9-30

TERMINAL CONNECTIONS

- Pin 1 - Heater
- Pin 2 - Cathode (Section Number 2)
- Pin 3 - Plate (Section Number 2)
- Pin 4 - Grid (Section Number 2)
- Pin 5 - Grid (Section Number 1)
- Pin 6 - Plate (Section Number 1)
- Pin 7 - Cathode (Section Number 1)
- Pin 8 - Heater

BASING DIAGRAM



DESIGN CENTER VALUES:

Plate Voltage	300	Volts
Plate Dissipation (Per Plate)	2.5	Watts
Grid Bias Voltage	0	Volts
Peak Heater-Cathode Voltage	90	Volts

MAXIMUM RATINGS

CHARACTERISTICS AND TYPICAL OPERATION

CLASS A AMPLIFIER: EACH SECTION

Plate Voltage	100	100	250	Volts
Grid Voltage	0	-3.0	-10	Volts
Cathode-Bias Resistor	-	600	1100	Ohms
Plate Current	10.8	5.0	9.0	Milliamperes
Transconductance	2600	1900	2100	Micromhos
Amplification Factor	17	16	16	
Plate Resistance	6500	8400	7600	Ohms

* Without external shield.

Electronics Department

GENERAL  ELECTRIC

Schenectady, N. Y.