GE Electronic TUBE — K KEN-RAD

7F8

Description and Rating

TWIN TRIODE

GENERAL DESCRIPTION

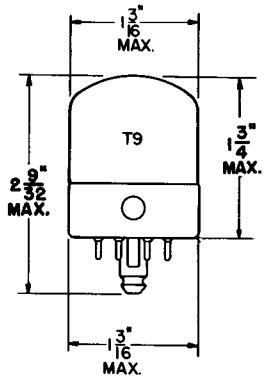
Principal Application: The 7F8 is a twin triode designed for use as a grounded-grid radio-frequency amplifier or as a frequency converter at frequencies up to 300 megacycles.

Cathode	Coated Unipotential
Heater Voltage (A-C or D-C)	6.3 Volts
Heater Current	0.3 Ampere
Envelope	T-9 Glass
Base:	D8-1 Locking-In 8-Pin
Mounting Position	Any

Direct Interelectrode Capacitances: *

(Per Section)		
Grid to Plate	1.2	μμf
Grid to Cathode	2.6	μμf
Plate to Cathode	1.4	μμf
Heater to Cathode **	2.6	μμf
Grid to Grid	0.1	μμf
Plate to Plate (Max)	0.5	μμf

PHYSICAL DIMENSIONS

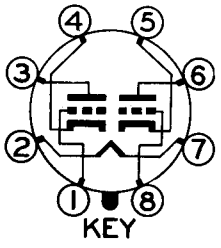


RMA 9-32

TERMINAL CONNECTIONS

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

BASING DIAGRAM



RMA 8BW
BOTTOM VIEW

MAXIMUM RATINGS

DESIGN CENTER VALUES: EACH SECTION

Plate Voltage	300	Volts
Plate Dissipation (Total for Both Sections)	3.5	Watts
Grid Voltage (Positive Bias Value)	0	Volts
Peak Heater-Cathode Voltage	90	Volts

CHARACTERISTICS AND TYPICAL OPERATION

CLASS A_1 AMPLIFIER: EACH SECTION

Plate Voltage	250	Volts
Cathode-Bias Resistor#	500	Ohms
Amplification Factor	48	
Plate Resistance (Approximate)	14500	Ohms
Transconductance	3300	Micromhos
Plate Current	6.0	Milliamperes
Grid Bias Voltage ##	-11	Volts

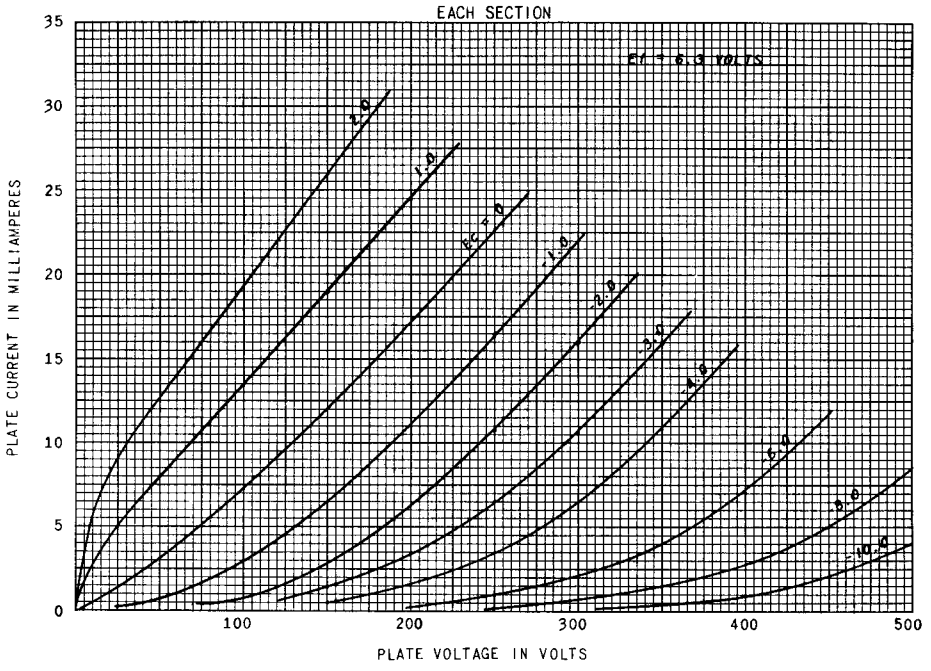
* *With external shield connected to cathode.*

** *With external shield connected to ground.*

\# *The d-c resistance in the grid circuit, under rated maximum conditions, should not exceed 0.5 megohm for cathode-bias operation.*

\#\# *For 10 microamperes plate current.*

AVERAGE PLATE CHARACTERISTICS



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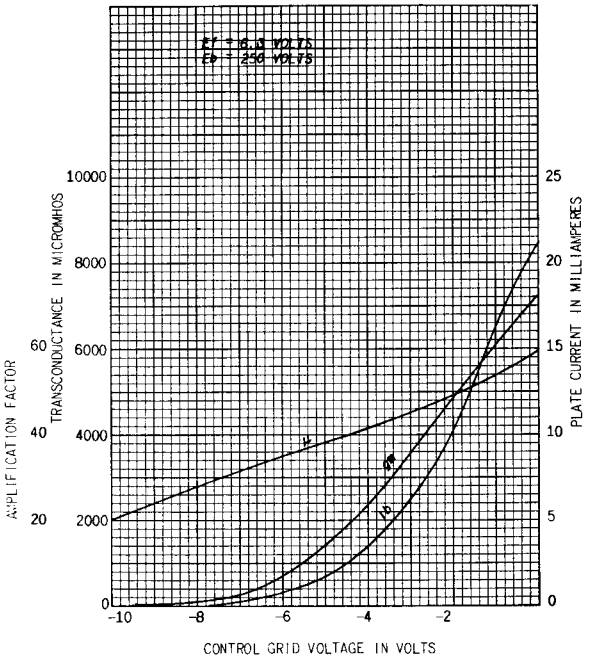

Tube Department

GENERAL ELECTRIC

Schenectady, N. Y.