DESCRIPTION AND RATING =

FOR DETECTOR AND AF VOLTAGE-AMPLIFIER APPLICATIONS

The 14JG8 is a duplex-diode, high-mu triode with separate cathodes for each of the diode sections and the triode section. The tube is primarily designed for use as an FM detector and AF voltage amplifier.

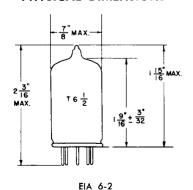
GENERAL

ELECTRICAL		MECHANICAL	
Cathode—Coated Unipotential		Mounting Position—Any	
Heater Characteristics and Ratings		Envelope—T-6½, Glass	
Heater Voltage, AC or DC*14	Volts	Base—E9-1, Small Button 9-Pi	n
Heater Current† 0.15 ± 0.009	Amperes	Outline Drawing—EIA 6-2	
Direct Interelectrode Capacitances‡		Maximum Diameter 7/8	Inches
Triode Grid to Plate	pf	Maximum Over-all	
Triode Input	pf	Length $2\frac{3}{16}$	Inches
Triode Output	\mathbf{pf}	Maximum Seated	
Grid to Diode-Number 1 Plate, maximum	pf	Height	Inches
Grid to Diode-Number 2 Plate, maximum	pf		
Diode-Number 1 Input	pf		
Diode-Number 2 Input	pf		
Diode-Number 1 Cathode to All	pf		

MAXIMUM RATINGS

DESIGN-MAXIMUM VALUES	Heater-Cathode Voltage	
Plate Voltage 330 Volts Positive DC Grid Voltage 0 Volts	TO C	Volts
Negative DC Grid Voltage	Total DC and Peak	
Flate Dissipation	Total DC and Peak200	
	Diode Current for Continuous Operation,	
	Each Diode 5.0	Milliamperes

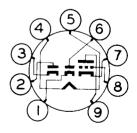
PHYSICAL DIMENSIONS



TERMINAL CONNECTIONS Pin 1—Diode Number 2 Cathode

Pin 2—Diode Number 1 Plate
Pin 3—Diode Number 1 Cathode
Pin 4—Heater
Pin 5—Heater
Pin 6—Diode Number 2 Plate
Pin 7—Triode Cathode
Pin 8—Triode Grid
Pin 9—Triode Plate

BASING DIAGRAM



EIA 9KR



CHARACTERISTICS AND TYPICAL OPERATION

AVERAGE CHARACTERISTICS

Plate Voltage250	Volts	Transconductance2200	Micromhos
Grid Voltage	Volts	Plate Current2.0	Milliamperes
Amplification Factor		Average Diode Current, Each Diode	
Plate Resistance, approximate41000	Ohms	With 5.0 Volts DC Applied20	Milliamperes

- * Heater voltage for a bogey tube at If = 0.15 amperes.
- † For series heater operation, the equipment designer should design the equipment so that heater current is centered at the specified bogey value, with heater supply variations
- restricted to maintain heater current within the specified tolerance.
- I Without external shield.

Design-Maximum ratings are limiting values of operating and environmental conditions applicable to a bogey electron tube of a specified type as defined by its published data and should not be exceeded under the worst probable conditions.

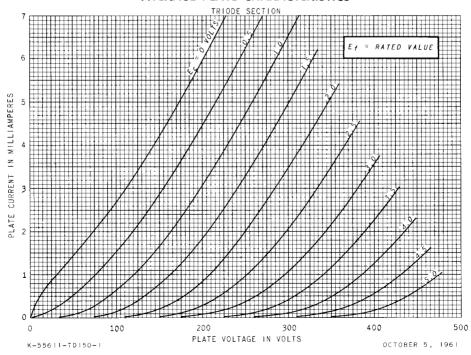
The tube manufacturer chooses these values to provide acceptable serviceability of the tube, making allowance for the effects of changes in operating conditions due to variations in the characteristics of the tube under consideration.

The equipment manufacturer should design so that initially and throughout life no design-maximum value for the intended service is exceeded with a bogey tube under the worst probable operating conditions with respect to supply-voltage variation, equipment component variation, equipment control adjustment, load variation, signal variation, environmental conditions, and variations in the characteristics of all other electron devices in the equipment.

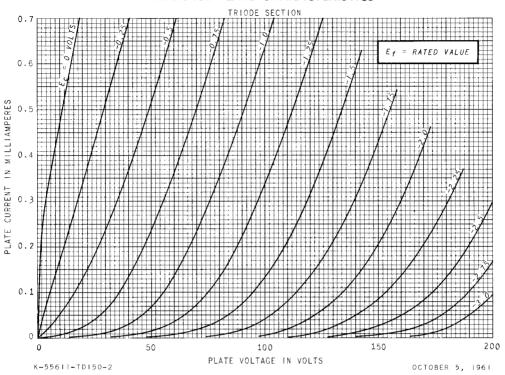
The tubes and arrangements disclosed herein may be covered by patents of General Electric Company or others. Neither the disclosure of any information herein nor the sale of tubes by General Electric Company conveys any license under patent claims covering combinations of tubes with other devices or

elements. In the absence of an express written agreement to the contrary, General Electric Company assumes no liability for patent infringement arising out of any use of the tubes with other devices or elements by any purchaser of tubes or others.

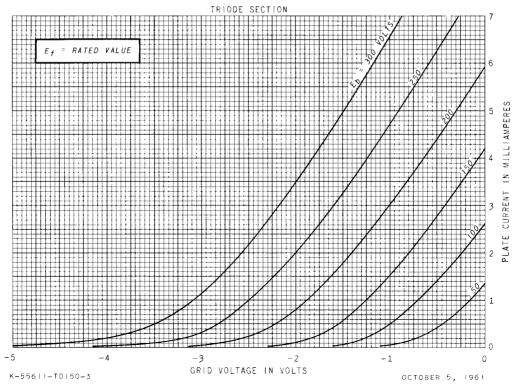
AVERAGE PLATE CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS

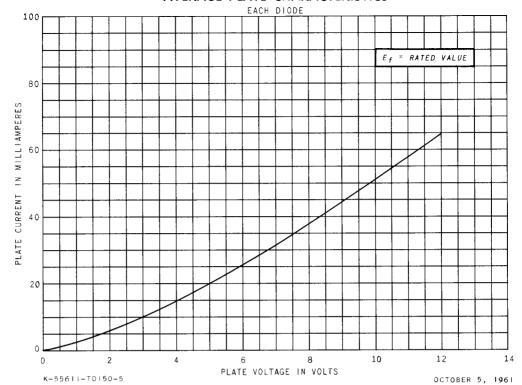


AVERAGE TRANSFER CHARACTERISTICS

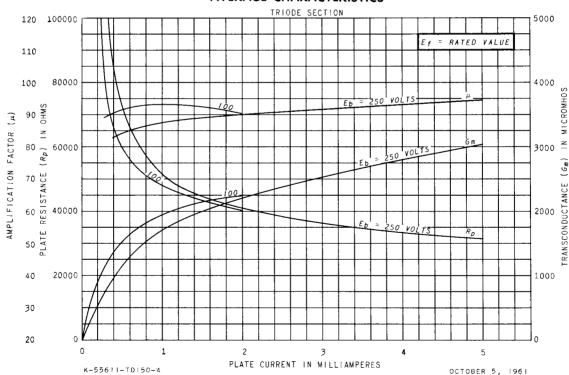


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AVERAGE PLATE CHARACTERISTICS



AVERAGE CHARACTERISTICS



RECEIVING TUBE DEPARTMENT



Owensboro, Kentucky