

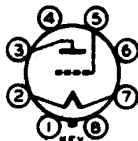


IH4-G

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### DETECTOR AMPLIFIER TRIODE

Filament	Coated	
Voltage	2.0	d-c volts
Current	0.06	amp.
Maximum Overall Length		4-1/8"
Maximum Diameter		1-9/16"
Bulb		ST-12
Base		Small Shell Octal 7-Pin
Pin 1-No Connection		Pin 5-Grid
Pin 2-Filament +		Pin 7-Filament -
Pin 3-Plate		Pin 8-No Connection
Pin 4-No Connection		
Mounting Position	BOTTOM VIEW	Vertical, Base Down ◊ ←



#### AMPLIFIER - Class A

##### Operating Conditions and Characteristics:

Filament	2.0	2.0	2.0	d-c volts
Plate	90	135	180 max.	volts
Grid *	4.5	-9	-13.5	volts
Amp. Fact.	9.3	9.3	9.3	
Plate Res.	11000	10300	10300	ohms
Transcond.	850	900	900	μmhos
Plate Cur.	2.5	3.0	3.1	ma.

\*The d-c resistance in the grid circuit should not exceed 2 megohms.

#### AMPLIFIER - Class B

Plate Voltage	180 max. volts
Peak Plate Current	50 max. ma.
Zero-Signal Plate Current	1.5 max. ma.

##### Typical Operating Conditions:

Unless otherwise specified, values are for 2 tubes.

Filament	2.0	d-c volts
Plate	157.5	volts
Grid	-15	volts
Zero-Signal D-C Plate Current	1.0	ma.
Load Resistance (per tube)	2000	ohms
Effective Load Res. (plate to plate)	8000	ohms
Maximum-Signal Driving Power	260	mw.
Power Output ‡	2.1	watts

‡ With one Type IH4-G as driver operated at plate volts of 157.5, grid volts of -11.3, and with plate load of approximately 18000 ohms: input transformer ratio, primary to one-half secondary, is 1.165: total distortion is 6 to 7%.

#### DETECTOR

Typical Operation.	Biased			Grid-Leak	
Filament	2.0	2.0	2.0	2.0	d-c volts
Plate	90	135	180 max.	45 max.	volts
Grid	-9	-13.5	-18	Return to (+) Fil.	volts
Plate Cur.	Adjusted to 0.2 ma. with no input signal. §			-	
Grid Leak	-	-	-	1 to 5	megohms
Grid Condenser	-	-	-	0.00025	μf

§ Max.-signal d-c plate current should be limited to 2.0 ma.

◊ Approximate.

◊ Horizontal operation permitted if plane of filament is vertical.

← indicates a change.

APRIL 20, 1938

RCA RADIOTRON DIVISION  
RCA MANUFACTURING COMPANY, INC.

DATA

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### AVERAGE PLATE CHARACTERISTICS

