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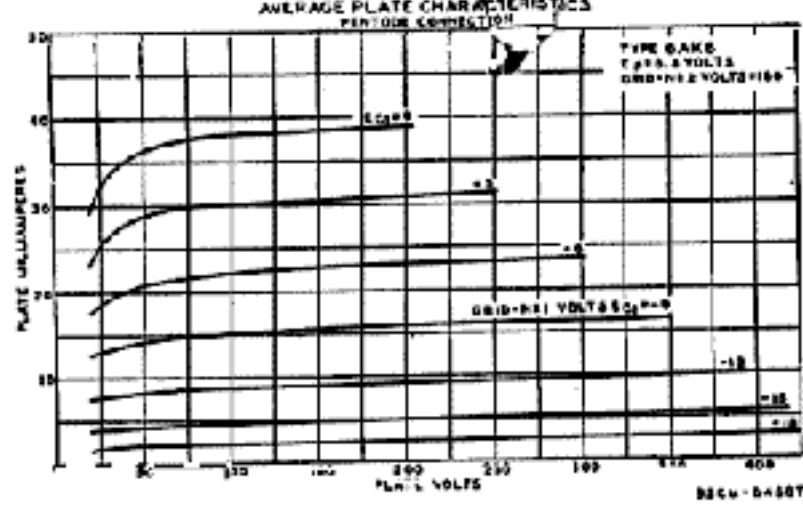
[VACUUM TUBE MANUAL](#)

## 6AL5 Electronic Vacuum Tube Specifications

## RCA RECEIVING TUBE MANUAL

Typical Operations	Triode Connection	Pentode Connection	
Plate Voltage	180	180	volts
Grid No. 3 (Suppressor)	-	Connected to cathode or socket	
Grid-No. 2 Voltage	-	180	volts
Grid-No. 1 Voltage	-12	-8	volts
Peak AF Grid-No. 1 Voltage	12	0	volts
Zero-Signal Plate Current	12	16	ma
Zero-Signal Grid-No. 2 Current	-	2.5	ma
Plate Resistance	0.0044	0.2	megohm
Amplification Factor	9.8	-	
Transconductance	2100	2300	µmhos
Load Resistance	12000	10000	ohms
Total Harmonic Distortion	5	10	per cent
Maximum-Signal Power Output	0.26	1.1	watts

\* Grid No. 2 and grid No. 3 tied to plate.  
 † The dc resistance in the grid-No.1 circuit under maximum rated conditions should not exceed 0.5 megohm for cathode-bias operation and 0.1 megohm for fixed-bias operation.



### 6AL5

#### TWIN DIODE

Miniature, high-perveance type used as detector in FM and television circuits. It is especially useful as a ratio detector in ac-operated FM receivers. Each diode can be used independently of the other or combined in parallel or full-wave arrangement.



Resonant frequency of each unit is approximately 700 megacycles per second. Outline 9, OUTLINES SECTION. Tube requires miniature seven-contact socket and may be mounted in any position. For heater and cathode considerations, refer to type 6AV6.

HEATER VOLTAGE (ac/rms)	6.3	volts
HEATER CURRENT	0.3	ampere
DIRECT INTERELECTRODE CAPACITANCES:		
Plate No. 1 to Cathode No. 1, Heater, and Internal Shield*	3.2	µf
Plate No. 2 to Cathode No. 2, Heater, and Internal Shield**	3.2	µf
Cathode No. 1 to Plate No. 1, Heater, and Internal Shield†	3.5	µf
Cathode No. 2 to Plate No. 2, Heater, and Internal Shield‡	3.8	µf
Plate No. 1 to Plate No. 2	0.026 max	µf

\* With close-fitting external shield connected to Cathode No. 1  
 \*\* With close-fitting external shield connected to Cathode No. 2  
 † With close-fitting external shield connected to Plate No. 1  
 ‡ With close-fitting external shield connected to Plate No. 2  
 † With close-fitting external shield connected to ground

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