

Low Voltage Amplifiers

Low Voltage Amp Products & Info.
Application Notes & Pricing Avail.

Piezo Drivers, Amplifiers

Up to 30 Channels, 2000 W power
digital, analog, standard &
custom

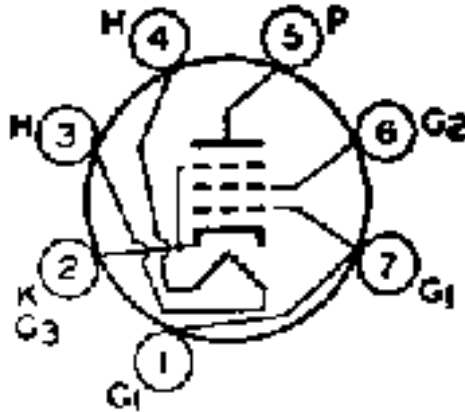
Low Voltage Amplifier

2.5 GHz, low power,
programmable gain amplifier ICs

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6AQ5A BEAM POWER TUBE

Pin	Element
1	Control Grid
2	Cathode
3	Heater (Filament)
4	Heater (Filament)
5	Plate (Anode)
6	Screen Grid
7	Control Grid



Miniature type used primarily as output amplifier in automobile receivers and in ac-operated receivers. Requires miniature 7-contact socket. Within its maximum ratings, the

performance of this type is equivalent to that of larger types [6V6](#) and [6V6GTA](#).

Heater Voltage (AC/DC)	6.3	volts
Heater Current	0.45	ampere
Heater Warm-up Time (Average)	11	seconds

Peak Heater-Cathode Voltage		
Heater negative with respect to cathode	200 max	volts
Heater positive with respect to cathode	200 ° max	

° The dc component must not exceed 100 volts.

Direct Interelectrode Capacitance (Approx.)		
Grid No.1 to Plate	0.4	pf
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3	8	
Plate to Cathode, Heater, Grid Ho.2, and Grid No.3	8.5	

CLASS A₁ AMPLIFIER

Maximum Ratings (<i>Design-Maximum Values</i>)		
Plate Voltage	275	volts

Grid-No.2 (Screen-Grid) Voltage	275	
Plate Dissipation	12	watts
Grid-No.2 Input	2	
Bulb Temperature (at hottest point)	250	°C

Characteristics (Triode Connection) °		
Plate Voltage	250	volts
Grid-No.1 (Control-Grid) Voltage	-12.5	
Amplification Factor	9.5	
Plate Resistance (Approx.)	1970	ohms
Transconductance	4800	umhos
Plate Current	49.5	ma
Grid-No.1 Voltage (Approx.) for plate current of 0.5 ma	-37	volts

° Grid No. 2 connected to plate.

Maximum Circuit Values		
Grid No. 1 Circuit Resistance		
For fixed-bias operation	0.1 max	megohm
For cathode-bias operation	0.5 max	