

Sept. 10, 1954

R-F Amplifier Pentode Type 6AG5

The 6AG5 is a 7-pin miniature sharp-cutoff pentode designed for service as an r-f or i-f amplifier up to 400 mc. The 6AG5 features two cathode leads which help isolate the input and output circuits thus minimizing degeneration.

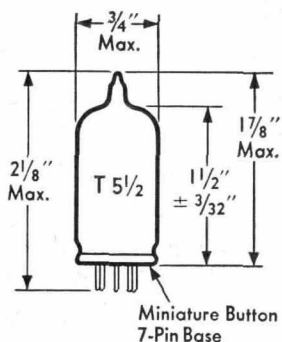
GENERAL DATA

Electrical:

Cathode	Coated Unipotential
Heater	
Voltage	6.3 ac or dc Volts
Current	0.3 Ampere
Direct Interelectrode Capacitances (Unshielded):	
Grid to Plate	0.030 max. $\mu\mu\text{f}$
Input	6.5 $\mu\mu\text{f}$
Output	1.8 $\mu\mu\text{f}$

Mechanical:

Bulb	T-5½
Base	Miniature Button 7-Pin
Basing	7BD
Mounting Position	Any



CE-A552

MAXIMUM RATINGS

Design Center Values

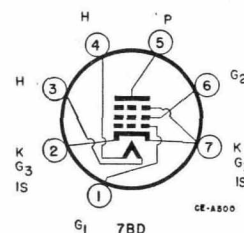
	Triode Connection	Pentode Connection
Plate Voltage	300	300 max. Volts
Screen Voltage	*	150 max. Volts
Plate Dissipation	2.5	2.0 max. Watts
Screen Dissipation	—	0.5 max. Watts
Heater-Cathode Voltage	90	90 max. Volts

CHARACTERISTICS AND TYPICAL OPERATION

Amplifier - Class A₁

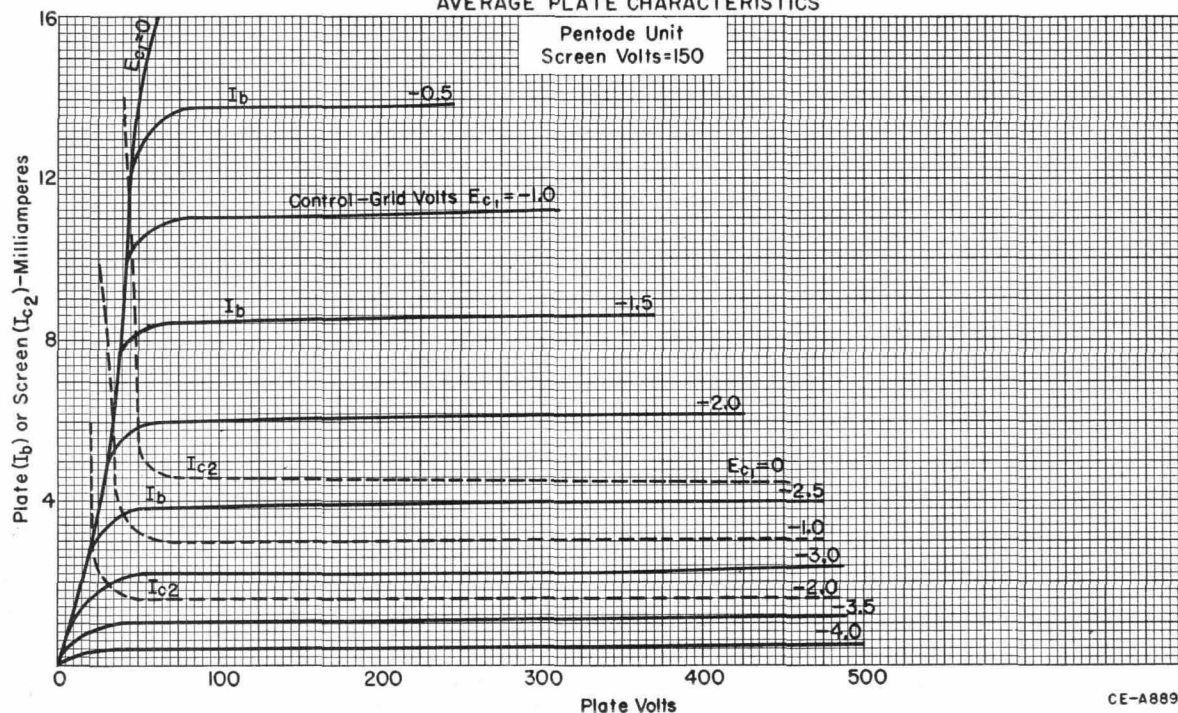
	Triode Connection		Pentode Connection	
Plate Voltage	180	250	100	125
Screen Voltage	*	*	100	125
Cathode Bias				
Resistor	350	825	100	100
Suppressor	Connected to Cathode Internally			
Amplification Factor ..	45	42	—	—
Transconductance	5700	3800	4750	5100
Plate Resistance				
(Approx.)	7900	11000	300000	500000
Plate Current	7.0	5.5	5.5	7.2
Screen Current	—	—	1.6	2.1
Grid Bias for I _b =				
10 μa	—	—	-5	-6

* Screen Connected to Plate.



BOTTOM VIEW

AVERAGE PLATE CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS

