

August 5, 1954

Beam Power Amplifier Type 6BK5

The 6BK5 is a 9-pin miniature beam power amplifier designed for service in the power output stages of television and radio receivers. The 6BK5 can also be used as a video amplifier. The tube features high power sensitivity, high transconductance, and high plate efficiency.

GENERAL DATA

Electrical:

Cathode	Coated Unipotential
Filament	
Voltage	6.3 ac or dc Volts
Current	1.2 Amperes
Direct Interelectrode Capacitances (Unshielded):	
Grid 1 to Plate	0.6 μf
Input	13 μf
Output	5.0 μf

Mechanical:

Bulb	T-6 $\frac{1}{2}$
Base	E9-1, Small Button 9-Pin
Basing	9BQ
Mounting Position	Any

MAXIMUM RATINGS

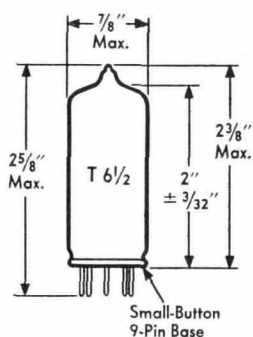
Design Center Values

Plate Voltage	250	Volts
Grid 2 Voltage	250	Volts
Positive Grid 1 Voltage	0	Volts
Plate Dissipation	9	Watts
Screen Dissipation	2.5	Watts
Heater-Cathode Voltage		
Heater Positive or Negative with Respect to Cathode	100	Volts
Grid 1 Circuit Resistance		
Fixed Bias	0.1	Megohm
Cathode Bias	0.5	Megohm

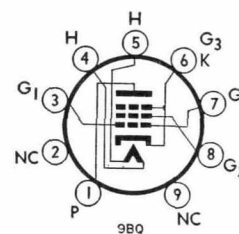
AMPLIFIER - CLASS A₁

Characteristics and Typical Operation

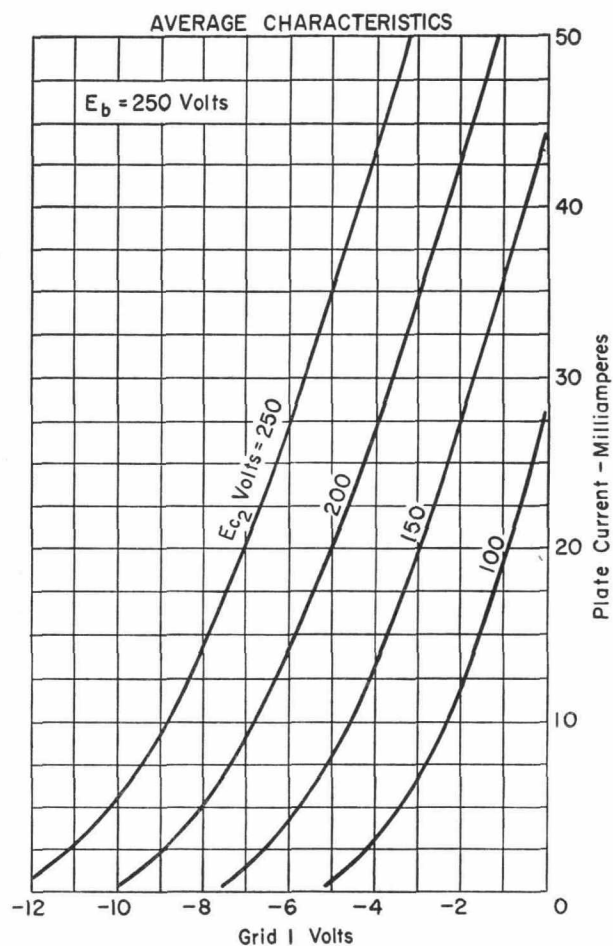
Plate Voltage	250	Volts
Grid 2 Voltage	250	Volts
Grid 1 Voltage	-5.0	Volts
Peak A-F Grid 1 Voltage	5.0	Volts
Plate Resistance (Approx.)	100000	Ohms
Transconductance	8500	μmhos
Zero Signal Plate Current	35	ma.
Maximum Signal Plate Current (Approx.)	37	ma.
Zero Signal Screen Current	3.5	ma.
Maximum Signal Screen Current	10	ma.
Load Resistance	6500	Ohms
Total Harmonic Distortion (Approx.)	7	Per Cent
Power Output	3.5	Watts



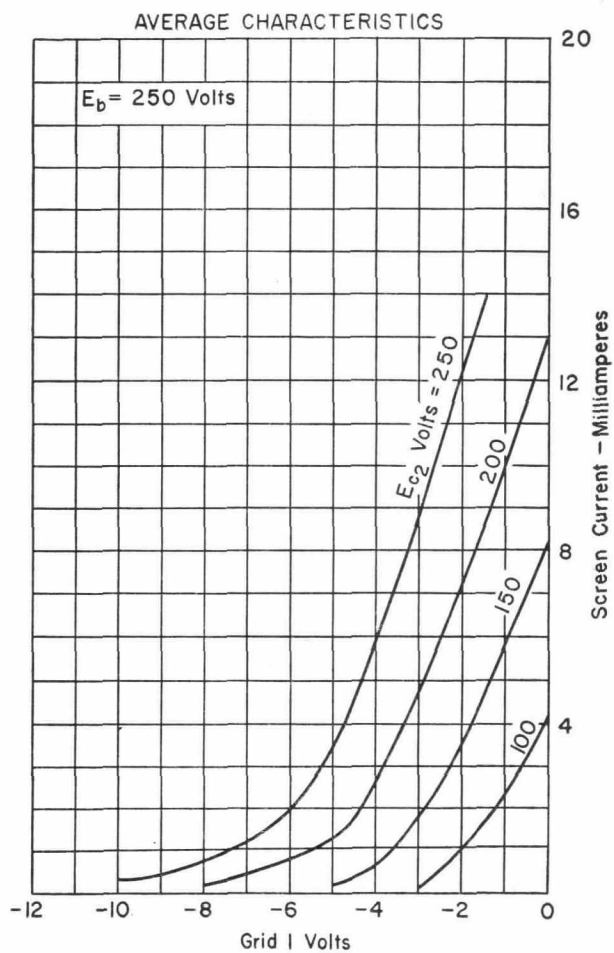
CE-A555



BOTTOM VIEW



CE-A884



CE-A885

