

December 1, 1961

BEAM POWER AMPLIFIER TYPE 6DG6-GT

The 6DG6-GT is a beam pentode type used in the audio output stage. This type features high power sensitivity and plate efficiency at low plate and screen voltages.

ELECTRICAL:

Cathode.....	Coated Unipotential
Heater:	
Voltage (ac or dc)	6.3 Volts
Current	1.2 Amperes
Direct Interelectrode Capacitances:	
Grid to Plate	0.6 $\mu\mu\text{f}$
Input	15 $\mu\mu\text{f}$
Output	10 $\mu\mu\text{f}$

MECHANICAL:

Bulb	T-9
Base	Intermediate Shell Octal 7-Pin (JEDEC B7-7)
Basing	7AC
Mounting Position	Any

MAXIMUM RATINGS:

Design Center Values

Plate Voltage	200	max.	Volts
Plate Dissipation	10	max.	Watts
Screen Voltage	125	max.	Volts
Screen Dissipation	1.25	max.	Watts

Heater-Cathode Voltage:

Heater Negative with Respect to Cathode:			
Total DC + Peak	200	max.	Volts
Heater Positive with Respect to Cathode:			
DC Component	100	max.	Volts
Total DC + Peak	200	max.	Volts

Grid Circuit Resistance:

Cathode Bias	0.5	max.	Megohm
Fixed Bias	0.1	max.	Megohm

CHARACTERISTICS AND TYPICAL OPERATION:

Class A₁ Amplifier

Plate Voltage	110	200	Volts
Screen Voltage	110	125	Volts
Control Grid Voltage	-7.5	-	Volts
Cathode Bias Resistor	-	180	Ohms
Peak A-F Control Grid Voltage	7.5	8.5	Volts
Zero Signal Plate Current	49	46	Ma.
Zero Signal Screen Current	4	2.2	Ma.
Max. Signal Plate Current	50	47	Ma.
Max. Signal Screen Current	10	8.5	Ma.
Transconductance	8000	8000	μmhos
Plate Resistance, Approx.	13000	28000	Ohms
Load Resistance	2000	4000	Ohms
Power Output	2.1	3.8	Watts
Total Harmonic Distortion	10	10	Per Cent



