



POWER AMPLIFIER PENTODE

6761

For use as output tube in telephone equipment and industrial applications, particularly in broadband amplifiers. Within its ratings it is a suitable replacement for type 6216.

COLD CAPACITANCES (without external shield)

Grid No 1 to Plate	.4	$\mu\mu\text{F}$
Input	14	$\mu\mu\text{F}$
Output	6	$\mu\mu\text{F}$

ABSOLUTE MAXIMUM RATINGS

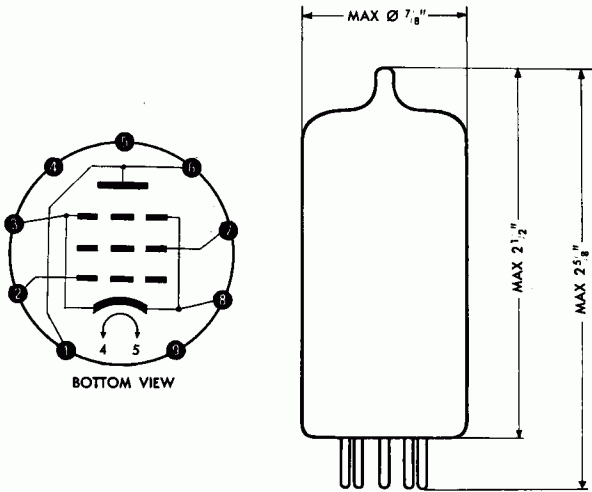
Plate Voltage	275	volts
Grid No 2 Voltage	220	volts
Grid No 1 Voltage, positive value	+ 10	volts
Grid No 1 Voltage, negative value	— 55	volts
Cathode Current	110	ma
Plate Dissipation	11	watts
Grid No 2 Dissipation (see Section A)	1.65	watts
Heater — Cathode Voltage	110	volts
Bulb Temperature, at hottest point	200	°C
Grid No 1 Circuit Resistance		
with fixed bias	.1	Mohm
with cathode bias	.5	Mohm

MECHANICAL DATA

Base: Small Button Noval 9-pin,
RETMA E9-1
Bulb: EIA T 6½
Mounting Position: Any

PIN NO. CONNECTED TO

- 1. Plate
- 2. Grid No 1
- 3. Cathode, Grid No 3
- 4. Heater
- 5. Heater
- 6. Plate
- 7. Grid No 2
- 8. Cathode, Grid No 3
- 9. No Connection



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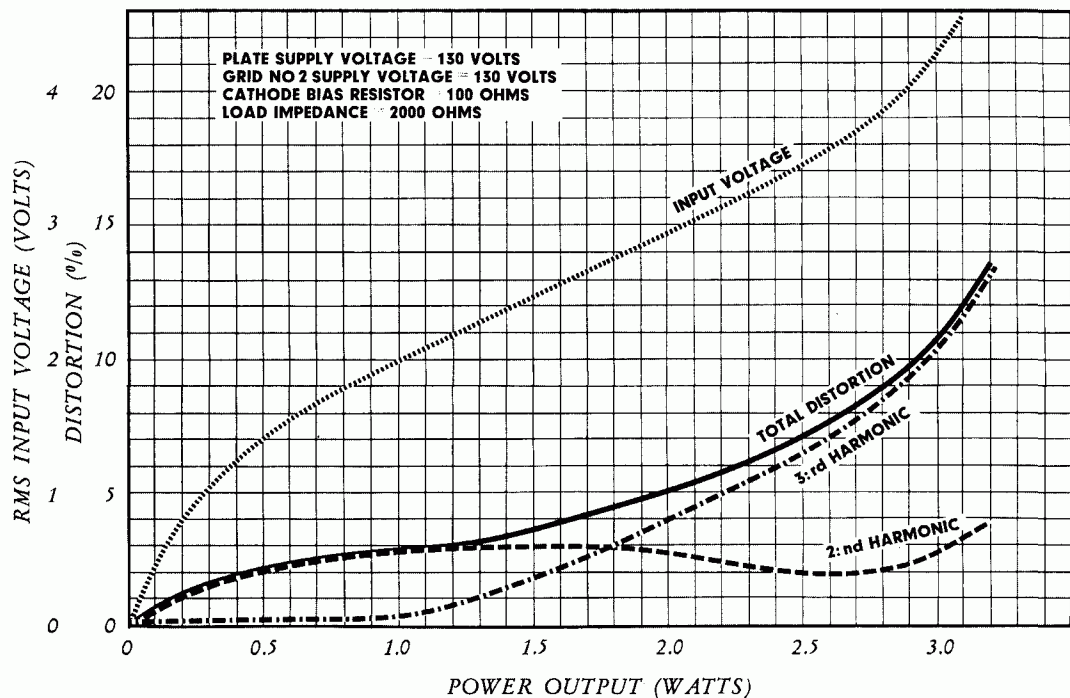
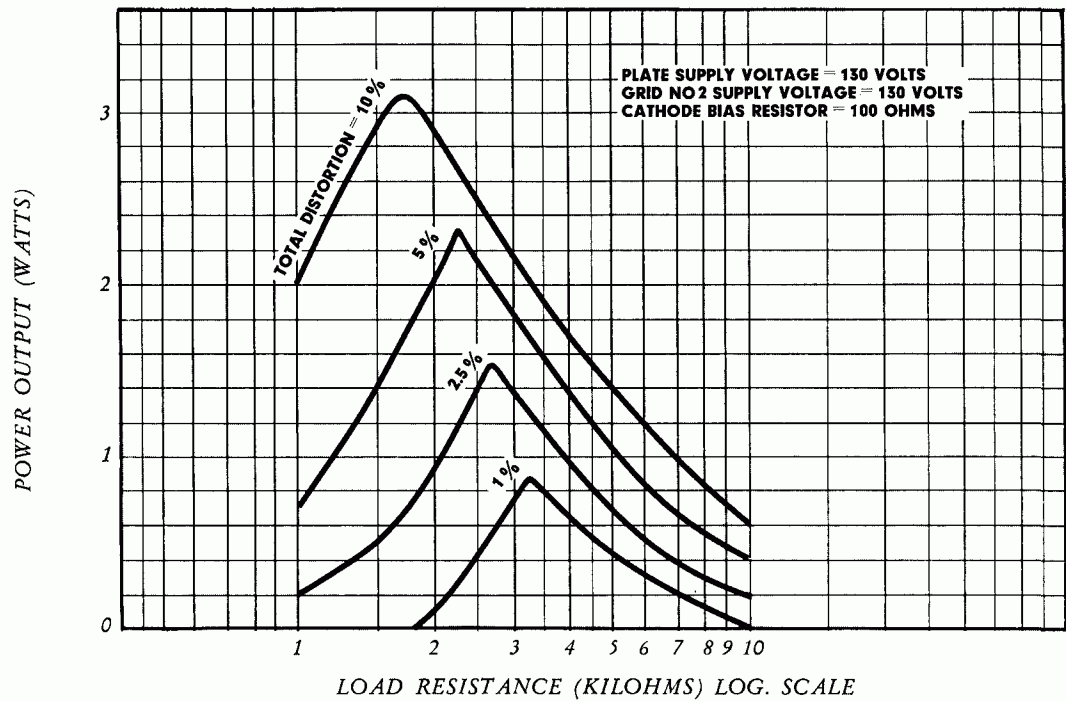
TYPICAL OPERATION. CLASS A₁

Heater Voltage	6.3	volts
Heater Current	1.0	amp
Plate Supply Voltage	130	volts
Grid No 2 Supply Voltage	130	volts
Cathode Bias Resistor	100	ohms
Plate Current	70	ma
Grid No 2 Current	3.5	ma
Transconductance	13,000	μmhos
Plate Resistance approx.	23,000	ohms
Load Resistance	1500	ohms
Power Output	3.0	watts
Total Harmonic Distortion	10	%
Amplification Factor Grid No 2 to 1	8	
Grid No 1 Voltage for Plate Current = 10 μa	— 25	volts

OPERATION RANGE VALUES

Heater Voltage		6.3		volts
Plate Supply Voltage		130		volts
Grid No 2 Supply Voltage		130		volts
Cathode Bias Resistor		100		ohms
	MIN	AVE	MAX	
Heater Current	900	1000	1100	ma
Plate Current	56	70	84	ma
Grid No 2 Current		3.5	7	ma
Transconductance	11,000	13,000	15,000	μmhos
Transconductance, End of Life Point	8500			μmhos
I _{hk} at E _{hk} = ± 100 volts			50	μa
Grid No 1 Current			— 1.0	μa
Cutoff Plate Current at E _{c1} = — 25 volts			100	μa

AVERAGE CHARACTERISTICS



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