

Sharp-Cutoff Pentode

7-PIN MINIATURE TYPE

With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	18	volts
Current	$0.1 \pm 6\%$	amp
Warm-up time (Average)	20	sec

Direct Interelectrode Capacitances:

	<i>Without External Shield</i>	<i>With External Shield^a</i>	
Grid No.1 to plate.	0.0035 max.	0.0035 max.	μf
Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater.	6	6	μf
Plate to cathode, grid No.3 & internal shield, grid No.2, and heater.	5	5	μf

Characteristics, Class A₁ Amplifier:

Plate Supply Voltage.	100	volts
Grid No.3	<i>Connected to cathode at socket</i>	
Grid-No.2 Supply Voltage.	100	volts
Cathode Resistor.	150	ohms
Plate Resistance (Approx.)	0.5	megohm
Transconductance.	4300	μmhos
Plate Current	5	ma
Grid-No.2 Current	2	ma
Grid-No.1 Voltage (Approx.) for plate $\mu\text{a} = 10$	-4.7	volts

Mechanical:

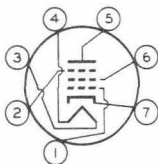
Operating Position.	Any
Maximum Overall Length.	2-1/8"
Maximum Seated Length	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/2" $\pm 3/32$ "
Diameter.	0.650" to 0.750"
Dimensional Outline	See <i>General Section</i>
Bulb.	T5-1/2
Base.	Small-Button Miniature 7-Pin (JEDEC No.E7-1)



18GD6A

Basing Designation for BOTTOM VIEW. 7BK

Pin 1-Grid No.1
Pin 2-Grid No.3,
Internal
Shield
Pin 3-Heater



Pin 4-Heater
Pin 5-Plate
Pin 6-Grid No.2
Pin 7-Cathode

RF AMPLIFIER and AUTODYNE CONVERTER

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE 150 max. volts
GRID No.3 (SUPPRESSOR GRID) . . .Connect to cathode at socket
GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE. . . . 150 max. volts
GRID-No.2 VOLTAGE See Grid-No.2 Input Rating
Chart at front of Receiving Tube Section

GRID-No.2 INPUT:

For grid-No.2 voltages up to 75 volts . . . 0.6 max. watt
For grid-No.2 voltages between
75 and 150 volts. See Grid-No.2 Input Rating
Chart at front of Receiving Tube Section

PLATE DISSIPATION 2.5 max. watts

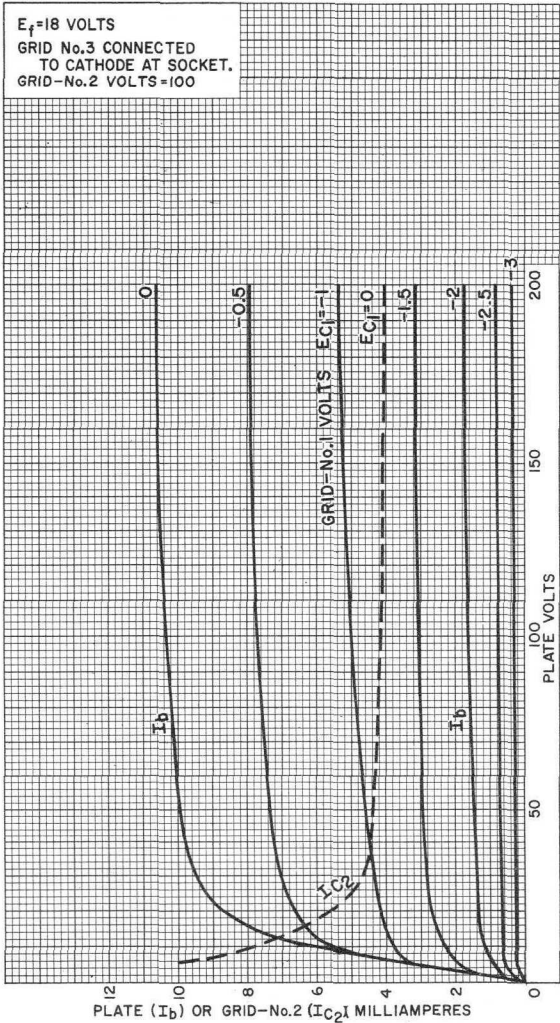
PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode . . 100 max. volts
Heater positive with respect to cathode . . 100 max. volts

^a With external shield JEDEC No.316 connected to cathode.



AVERAGE CHARACTERISTICS

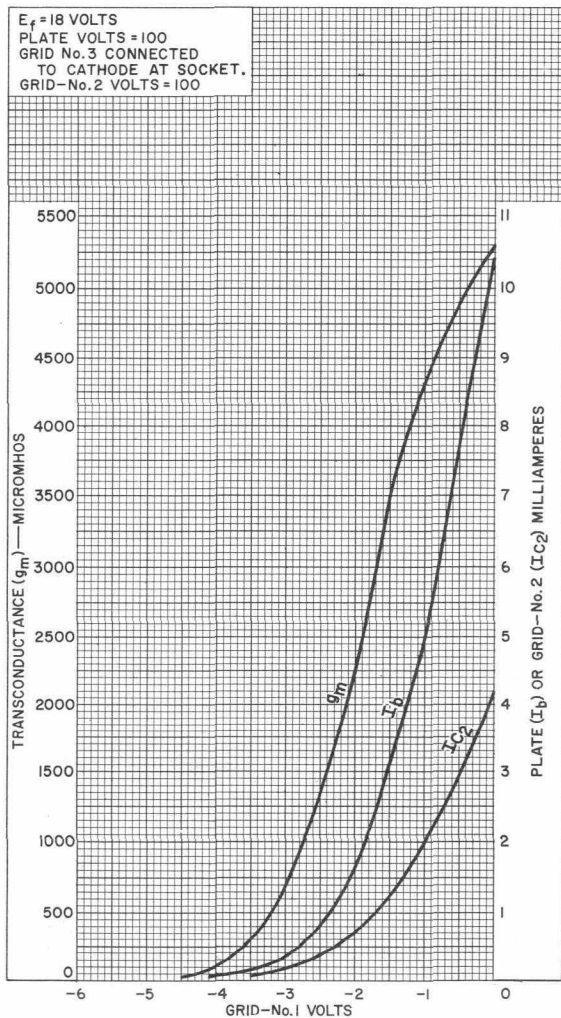


92CM-11138RI



18GD6A

AVERAGE CHARACTERISTICS



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