

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	Connected to cathode at socket	
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:

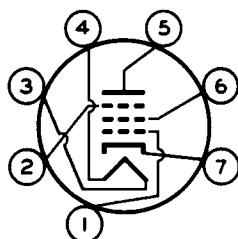
Operating Position.	Any
Maximum Overall Length.	2-1/8"
Maximum Seated Length	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/2" $\pm 3/32$ "
Diameter.	0.650" to 0.750"
Dimensional Outline	See <i>General Section</i>
Bulb.	T5-1/2
Base.	Small-Button Miniature 7-Pin (JEDEC No.E7-1)



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 VOLTAGESee *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

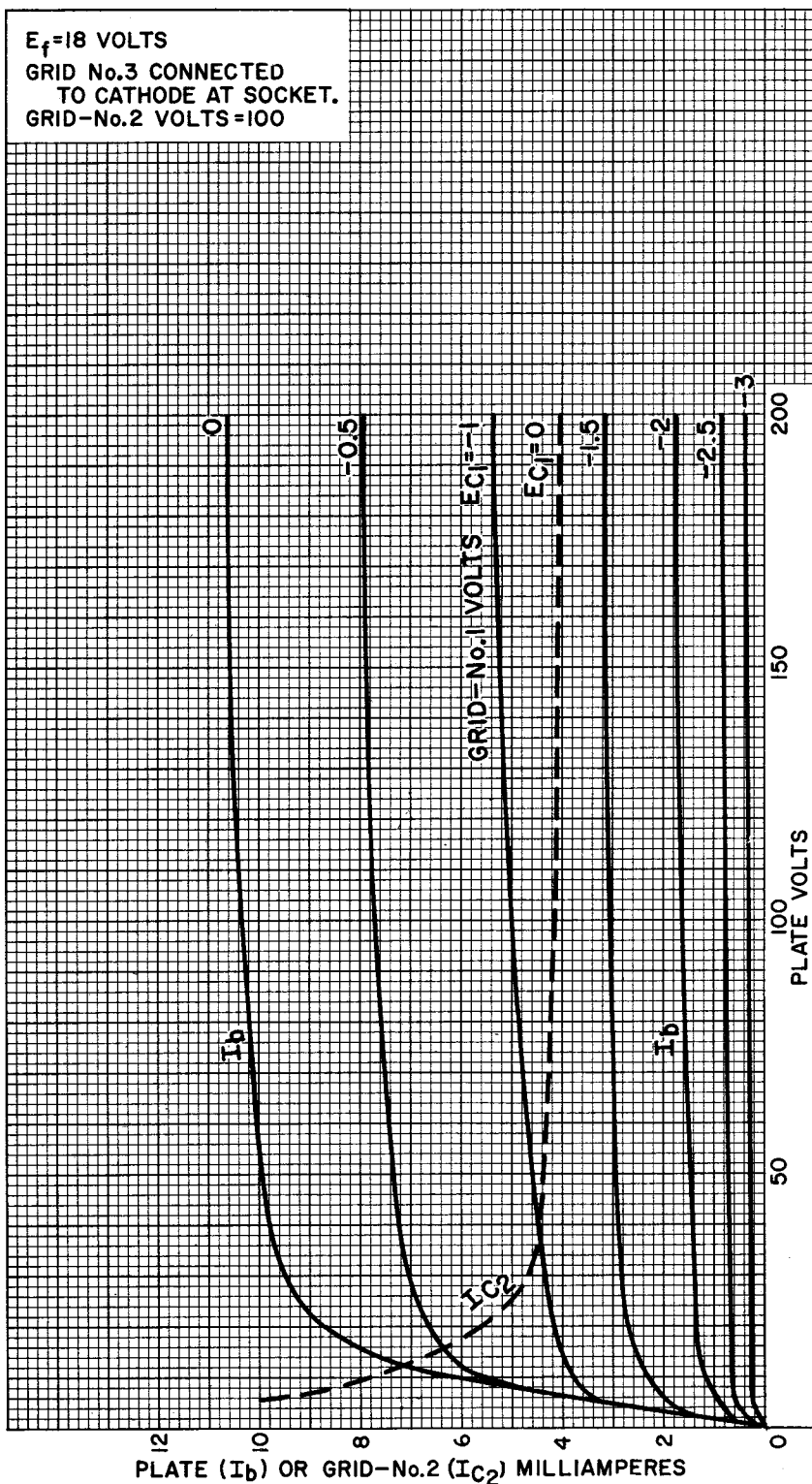
PEAK HEATER-CATHODE VOLTAGE:

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

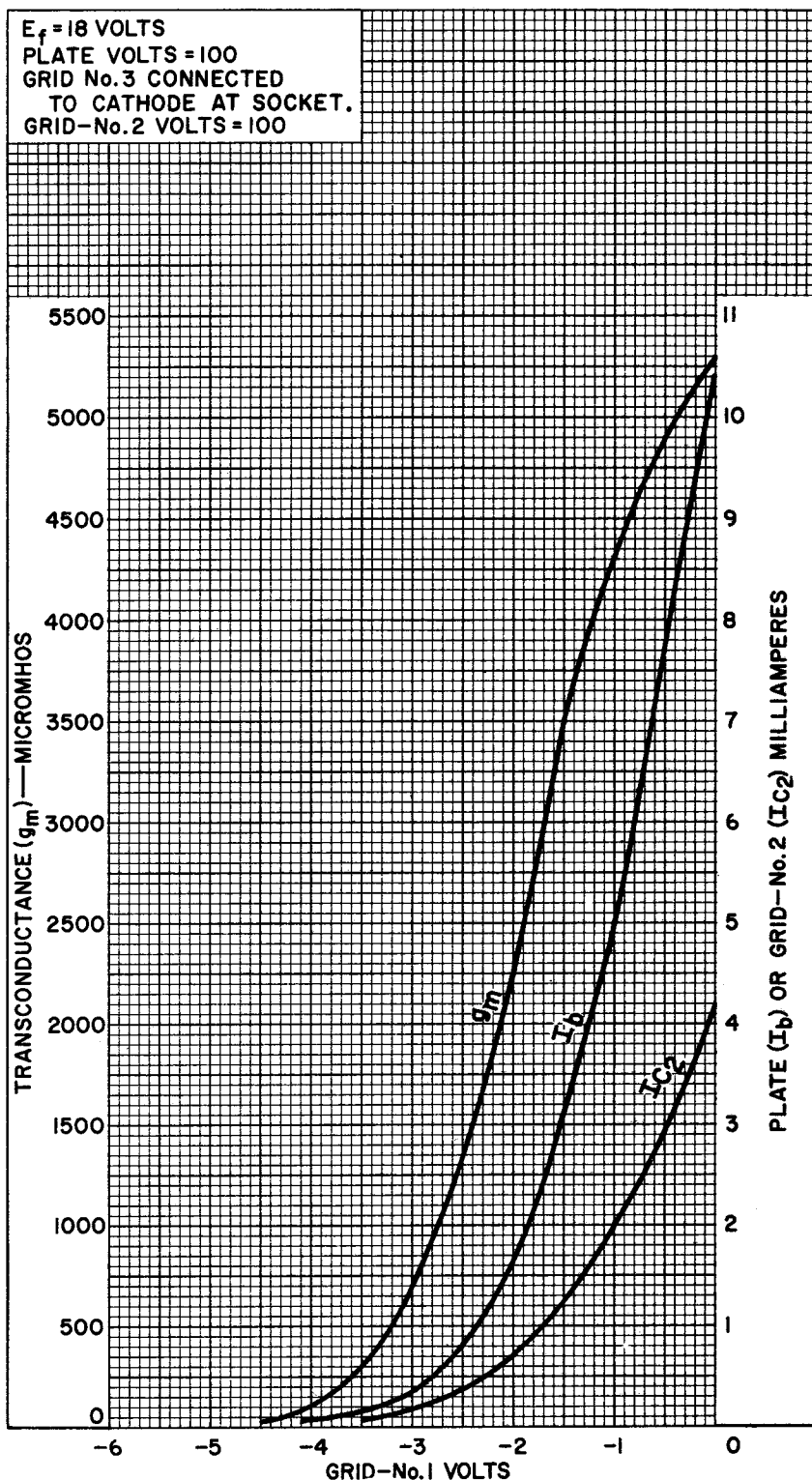


92CM-11138R1



18GD6A

AVERAGE CHARACTERISTICS



92CM-11136R1

