



18A5

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BEAM POWER TUBE

*Intended for use in equipment having
series heater-string arrangement*

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	18.5	volts
Current	$0.3 \pm 6\%$	amp
Warm-up time (Average)	11	sec

Direct Interelectrode Capacitances (Approx.):^o

Grid No.1 to plate.	0.7	μmf
Grid No.1 to cathode & grid No.3, grid No.2, and heater.	13	μmf
Plate to cathode & grid No.3, grid No.2, and heater.	7	μmf

Characteristics, Class A₁ Amplifier:

Plate Voltage	60	200	volts
Grid-No.2 Voltage	125	125	volts
Grid-No.1 Voltage	0	-17	volts
Plate Resistance (Approx.)	-	27000	ohms
Transconductance	-	4800	μmhos
Plate Current	165*	40	ma
Grid-No.2 Current	15*	1.1	ma
Grid-No.1 Voltage (Approx.) for plate ma. = 1	-	-36	volts

Mechanical:

Operating Position.	Any
Maximum Overall Length.	3-7/16"
Maximum Seated Length	2-7/8"
Maximum Diameter.	1-9/32"

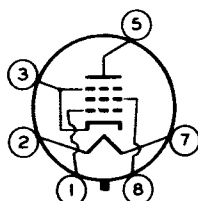
Bulb. T9

Base. Intermediate-Shell Octal 6-Pin, Arrangement 1
(JEDEC Group 1, No.B6-8), or Short Intermediate-Shell
Octal 6-Pin with External Barriers, Arrangement 1
(JEDEC Group 1, No.B6-60)

Basing Designation for BOTTOM VIEW. 6CK

Pin 1-Grid No.1

Pin 2-Heater

Pin 3-Cathode,
Grid No.3

Pin 5-Plate

Pin 7-Heater

Pin 8-Grid No.2

HORIZONTAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system[□]

DC PLATE VOLTAGE.	350 max.	volts
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PEAK POSITIVE-PULSE PLATE VOLTAGE [#]	3000	max.	volts
PEAK NEGATIVE-PULSE PLATE VOLTAGE	600	max.	volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE.	160	max.	volts
PEAK NEGATIVE-PULSE GRID-No.1 (CONTROL-GRID) VOLTAGE.	250	max.	volts
CATHODE CURRENT:			
Peak.	310	max.	ma
Average	90	max.	ma
GRID-No.2 INPUT	2.5	max.	watts
PLATE DISSIPATION [†]	9	max.	watts
PEAK-HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode.	200	max.	volts
Heater positive with respect to cathode.	200	max.	volts
BULB TEMPERATURE (At hottest point on bulb surface).			
	190	max.	°C

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For grid-resistor-bias operation[†] 1 max. megohm

○ Without external shield.

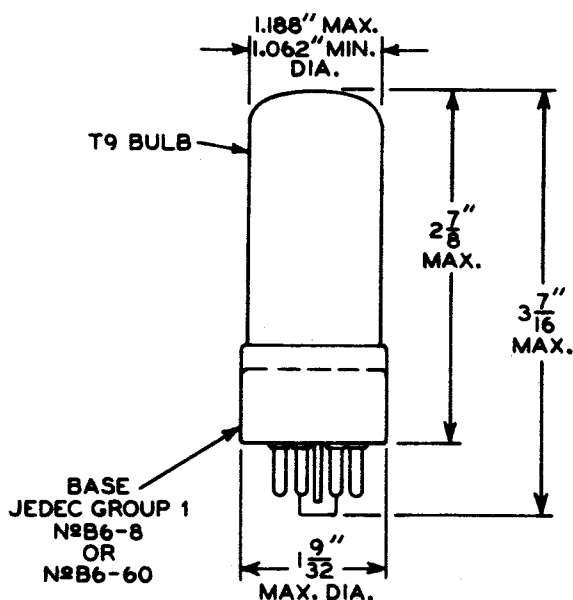
* This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.

□ As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

[#] This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

[†] An adequate bias resistor or other means is required to protect the tube in the absence of excitation.

▲ The dc component must not exceed 100 volts.



92CS-10242