

Beam Power Tube

NOVAR TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3 ± 10%	volts
Current at 6.3 volts.	1.2	amp

Mu-Factor, Grid No.2 to Grid No.1 for plate volts = 150, grid-No.2 volts = 150, grid-No.1 volts = -22.5.	4.4	
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Direct Interelectrode Capacitances
(Approx.):^a

Grid No.1 to plate.	0.26	μmf
Grid No.1 to cathode & grid No.3, grid No.2, and heater	15	μmf
Plate to cathode & grid No.3, grid No.2, and heater	6.5	μmf

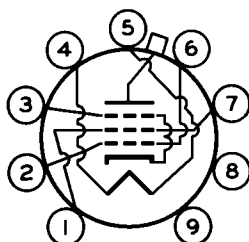
Characteristics, Class A₁ Amplifier:

Plate Voltage	60	250	volts
Grid-No.2 Voltage	150	150	volts
Grid-No.1 Voltage	0	-22.5	volts
Plate Resistance (Approx.)	-	15000	ohms
Transconductance.	-	7100	μmhos
Plate Current	390 ^b	70	ma
Grid-No.2 Current	32 ^b	2.1	ma
Grid-No.1 Voltage (Approx.) for plate ma. = 1	-	-42	volts

Mechanical:

Operating Position.	Any
Maximum Overall Length.	3.55"
Seated Length	3.04" ± 0.13"
Diameter.	1.438" to 1.562"
Bulb.	T12
Cap	Skirted Miniature (JEDEC C1-2 or C1-3)
Socket.	Cinch Mfg. Co. No.149 1900 24, Industrial Electronic Hardware Co. No.S0-0968-M, or equivalent
Base.	Large-Button Novar 9-Pin (JEDEC No.E9-76)
Basing Designation for BOTTOM VIEW.	9NM

- Pin 1-Grid No.2
- Pin 2-Grid No.1
- Pin 3-Cathode,
Grid No.3
- Pin 4-Heater
- Pin 5-Heater



- Pin 6-Grid No.1
- Pin 7-Grid No.2
- Pin 8-Do Not Use
- Pin 9-Do Not Use
- Cap-Plate



HORIZONTAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system^c

DC PLATE-SUPPLY VOLTAGE	770	max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE ^d	6500	max.	volts
PEAK NEGATIVE-PULSE PLATE VOLTAGE	1500	max.	volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE	220	max.	volts
DC GRID-No.1 (CONTROL-GRID) VOLTAGE	-55	max.	volts
PEAK NEGATIVE-PULSE GRID-No.1 VOLTAGE . .	330	max.	volts
CATHODE CURRENT:			
Peak	550	max.	ma
Average	175	max.	ma
GRID-No.2 INPUT	3.5	max.	watts
PLATE DISSIPATION ^e	17.5	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode.	200	max.	volts
Heater positive with respect to cathode.	200 ^f	max.	volts
BULB TEMPERATURE (At hottest point on bulb surface).			
	240	max.	°C

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For grid resistor-bias operation. 1 max. megohm

^a Without external shield.

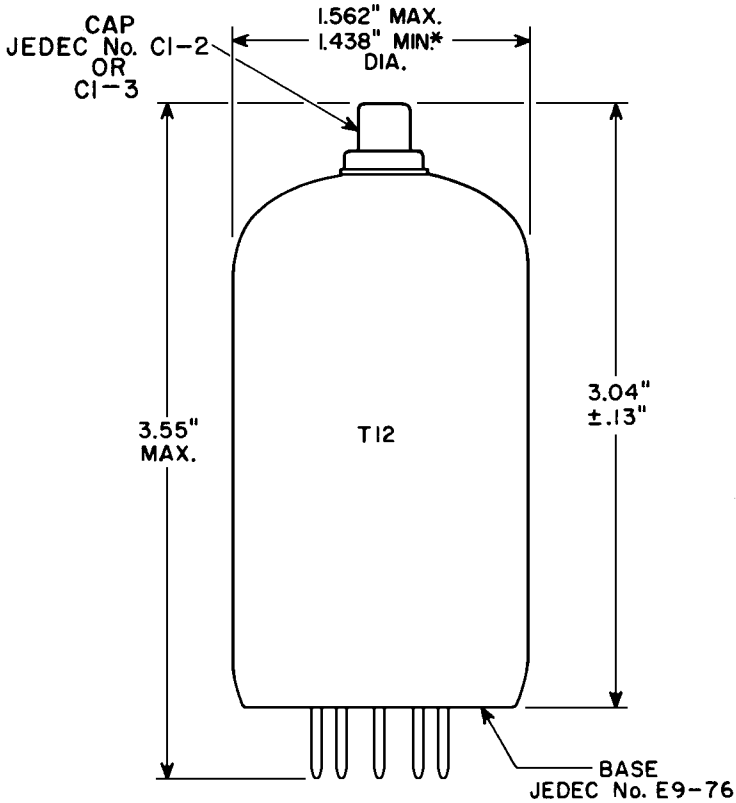
^b This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.

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

^d 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.

^e An adequate bias resistor or other means is required to protect the tube in the absence of excitation.

^f The dc component must not exceed 100 volts.

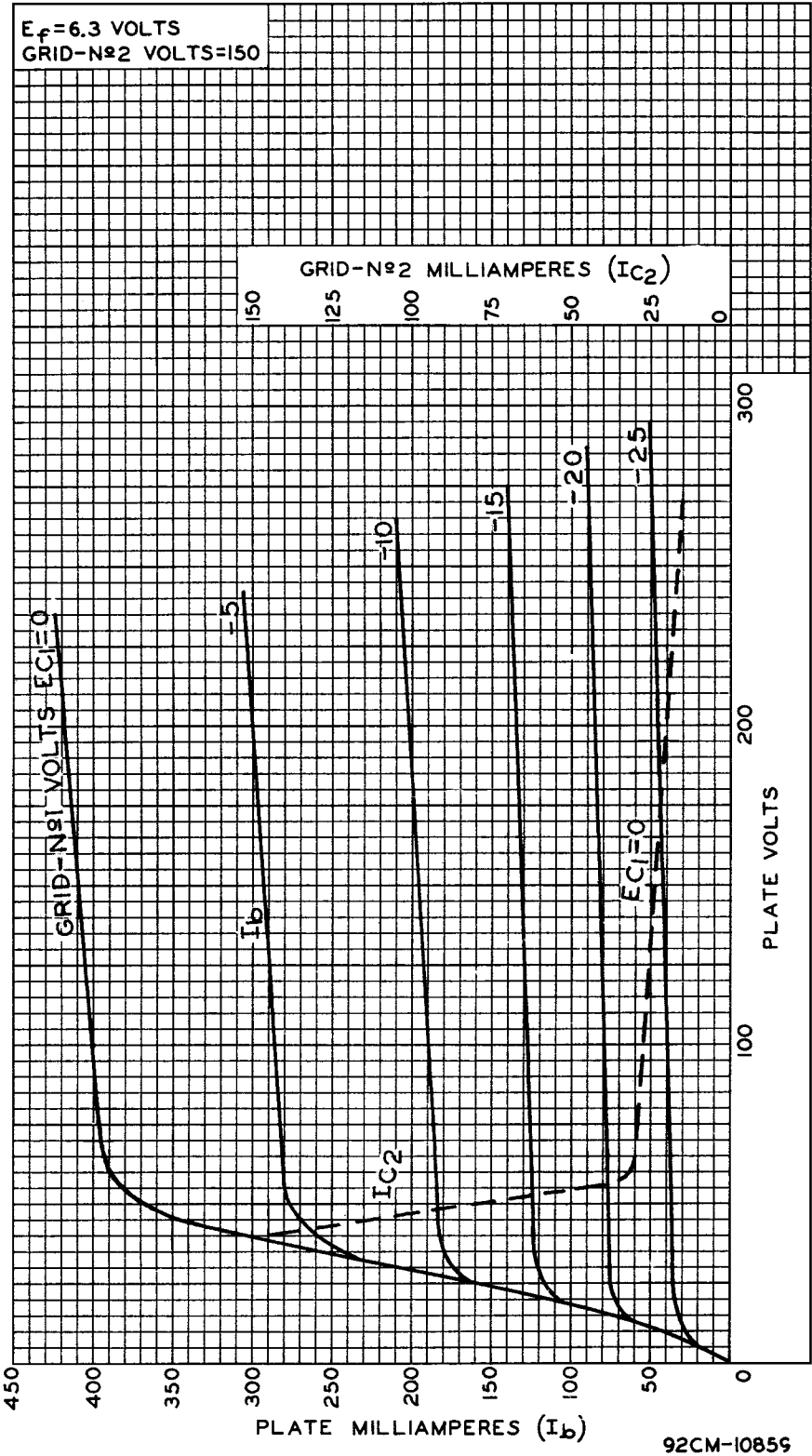


92CS—11127R1

* APPLIES IN ZONE STARTING 0.375" FROM BASE SEAT.



AVERAGE CHARACTERISTICS



92CM-10856

