Beam Power Tube

NOVAR TYPE

For TV Horizontal-Deflection Amplifier Applications

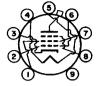
GENERAL DATA

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Electrical:
Heater Characteristics and Ratings:
Voltage (AC or DC)
Current at heater volts = 6.3 1.2 amp Peak heater-cathode voltage:
Heater negative with
respect to cathode 200 max. volts
Heater positive with
respect to cathode 200ª max. volts
Direct Interelectrode Capacitances
(Approx.):b
Grid No.1 to plate 0.2 pf
Grid No.1 to cathode, grid No.3,
grid No.2, and heater 15.0 pf
Plate to cathode, grid No.3, grid No.2, and heater 6.0 pf
grid No.2, and heater pr
Characteristics, Class A ₁ Amplifier:
Triode Pentode
Connection Connection
Plate Voltage 150 60 250 volts
Plate Voltage
at socket
Grid-No.2 Voltage 150 150 150 volts
Grid-No.1 Voltage22.5 0 -22.5 volts
Mu-factor, Grid No. 2
to Grid No.1 4.4 Plate Resistance (Approx.) 15000 ohms
Plate Resistance (Approx.) 15000 ohms Transconductance 7100 µmhos
Plate Current
Grid-No. 2 Current 32° 2.1 ma
Grid-No. 2 Voltage (Approx.)
for plate current = 1 ma42 volts
water to the
Mechanical:
Operating Position
Type of Cathode Coated Unipotential
Maximum Overall Length
Diameter
Bulb
Cap Skirted Miniature (JEDEC No.C1-2 or C1-3)
Socket
Industrial Electronic Hardware Corp. No.SO-0968-SL1,
or equivalent

6JB6

Pin 1-Grid No.2 Pin 2-Grid No.1 Pin 3-Cathode

Pin 4 - Heater Pin 5 - Heater



Pin 6- Grid No.1 Pin 7- Grid No.2 Pin 8- Grid No.3 Pin 9- Do Not Use Cap-Plate

HORIZONTAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Maximum Values:

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

•	J-J				
DC PLATE-SUPPLY VOLTA	AGE				
(Boost + DC Power :	Supply)		770	max.	volts
PEAK POSITIVE-PULSE I			6500	max.	volts
PEAK NEGATIVE-PULSE	PLATE VOLTAG	Œ	1500	max.	volts
DC GRID-No.3 VOLTAGE					
(See Operating Con:	siderations)		70	max.	volts
DC GRID-No. 2 (SCREEN-	-GRID) VOLTA	ΝGE	220	max.	volts
DC GRID-No.1 (CONTRO	L-GRID) VOLT	「AGE	-55	max.	volts
PEAK NEGATIVE-PULSE	GRID-No.1 VC	LTAGE .	330 (max.	volts
CATHODE CURRENT:					
Peak			550 1	max.	ma

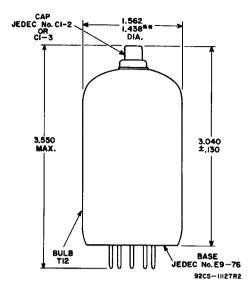
voits	330 max.	VULTAGE .	GKID-No.1	PEAK NEGATIVE-PULSE
				CATHODE CURRENT:
ma	550 max.			Peak
ma	175 max.			Average
watts				GRID-No.2 INPUT
watts	17.5 max.			PLATE DISSIPATION.
				BULB TEMPERATURE
0	240 may	rface)	on bulb si	(At hottest point

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For grid-resistor bias operation f... 1 max. megohm

- The dc component must not exceed 100 volts.
- Without external shield.
- This value can be measured by a method involving a recurrent wave form such that the plate dissipation, grid-wo.2 input, and cathode current will be kept within ratings in order to prevent damage to the tube.
- 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 525line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.
- It is essential that the plate dissipation be limited in the event of loss of grid signal. For this purpose, some protective means such as a cathode resistor of suitable value should be employed.



ALL DIMENSIONS IN INCHES

** APPLIES IN ZONE STARTING 0.375" FROM BASE SEAT.

OPERATING CONSIDERATIONS

In horizontal-deflection amplifier service a positive voltage may be applied to grid No.3 to minimize "snivets" interference in both vhf and uhf television receivers. A typical value for this voltage is 30 volts.

AVERAGE CHARACTERISTICS

