Beam Power Tube

NOVAR TYPE

For Horizontal-Deflection-Amplifier Service in Low-B+ Black-and-White TV Receivers

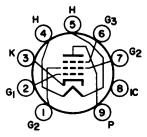
Electrical:

Heater Characteristics and Ratings: Voltage (AC or DC)	volts amp
Peak heater-cathode voltage:	
Heater negative with	
respect to cathode 200 max.	volts
Heater positive with	
respect to cathode 200° max.	volts
Direct Interelectrode Capacitances (Approx.)b	
G1 to P 0.7	pf
Input: G1 to (K,G3,G2,H)	pf
Output: P to (K,G3,G2,H) 9.0	pf
Output. 1 to (N, a2, a2, a)	Pι

Mechanical:

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Operating Position
Type of Cathode Coated Unipotential
Maximum Overall Length
Maximum Seated Length
Length, Base Seat to Bulb Top
(Excluding tip) 2.510" to 2.690"
Diameter 1.438" to 1.562"
Bulb
Socket Cinch Mfg. Co. No.149 19 00 033, Industrial
Electronic Hardware Corp. No.SO-0968-SL1, or equivalent
Base Large-Button Novar 9-Pin (JEDEC No.E9-76)
Basing Designation for BOTTOM VIEW

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



Pin 6-Grid No.3 Pin 7-Grid No.2 G2 Pin 8 - Do Not Use Pin 9 - Plate

Characteristics, Class A_{\parallel} Amplifier:

	Triode			
	Connection ^c	Conne	ction	
Plate Voltage			130	
Grid No.3	Connected			
Grid-No.2 Voltage	_		125	
Grid-No.1 Voltage	- 20	0	-20	volts
Amplification Factor	4.1	_	-	
Plate Resistance				
(Approx.)	_	_	12000	ohms
Transconductance	_	_	10000	μ mhos

	· ~						
Plate Current	_	Conne 525 d	80	mo			
Grid-No.2 Current	· . –	32 d	2.5	ma ma			
Grid-No.1 Voltage	•	72	2.5	ma			
(Approx.) for plate							
ma. = 1		_	-40 vol	t s			
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
HORIZONTAL-DEFLECTION AMPLIFIER							
Maximum Ratings, Design-Maxi	mum Values:						
For operation in a 5	525-line, 30	-frame sy	stem e				
DC Plate Supply Voltage	, y , y .	. 770 ma	_	1 -			
Peak Positive-Pulse Plate Vo	oltago f	. 6500 ma					
Peak Negative-Pulse Plate Vo	oltage	. 1500 ma					
DC Grid-No.3 (Suppressor-Gri	id) Voltage	. 1300 116	ax. vol	LS			
(See Operating Considerati	one)	. 75 ma		+ ~			
DC Grid-No.2 (Screen-Grid) V	/oltane	. 220 ma		-			
DC Grid-No.1 (Control-Grid)	Voltage: .	. ZZO IIIa	1X. VOI	t S			
Negative-bias value	· or rage.	. 55 ma	ax. vol	+ c			
Peak Negative-Pulse Grid-No.	1 Voltage	. 330 ma					
Cathode Current:	- rortage.	• /// TIRE	· VOI	15			
Peak		. 950 ma	· ·	ma			
Average		. 275 ma		ma			
Grid-No.2 Input		. 3.5 ma					
Plate Dissipation ⁹		. 17 ma					
Bulb Temperature (At hottest	point		·/·				
on bulb surface)		. 220 ma	ı×.	o _C			
Maximum Circuit Values:							
Grid-No.1-Circuit Resistance	:						
For grid-No.1-resistor-bia							
operation		. 2.2 ma	x. megohr	ms .			
a							
The dc component must not excee	ed 100 volts.						
Without external shield.							
With grid No.2 connected to pla	ate at socket.						
This value can be measured by such that the maximum ratings o	a method invol	lving a recu	rrent wavefo	rm			
e As described in "Standards of Television Broadcast Stations	Good Engine	ering Practi	ice Concerni	ng			
f This rating is applicable where	the duration	of the volt	ane pulso do	n.			
This rating is applicable where not exceed 15 per cent of one line, 30-frame system 15 per co 10 microseconds.	horizontal sent of one hor	canning cyc rizontal sca	le. In a 52 nning cycle	5- is			
An adequate bias resistor or of tube in the absence of excitati	other means i	s required	to protect t	he			
· · · · -	CONSIDERATI						
In Horizontal-Deflectio	n-Amplifier	Service.	a positiv	⁄е			
voltage may be applied to g	rid No.3 to	reduce i	nterference	e			
from "snivets" which may occ	ur in both v	vhf and uh	f televisia	on			
receivers. A typical value							

DIMENSIONAL OUTLINE AND CURVES shown under Type 22JG6 also apply to the 6JG6

receivers. A typical value for this voltage is 30 volts.