

6LZ6

Beam Power Tube

NOVAR TYPE

ELECTRICAL CHARACTERISTICS — Bogey Values

Heater Voltage, ac or dc	E_h	6.3	V
Heater Current	I_h	2.3	A

Direct Interelectrode Capacitances:^a

Grid No. 1 to plate	c_{g1-p}	0.6	pF
Input: G1 to (K, G3, G2, H) c_i		22	pF
Output: Pto (K, G3, G2, H) c_o		11	pF

For the following characteristics, see Conditions below:

Amplification Factor

(Triode Connection)^b μ — — 3C

Plate Resistance

(Approx.)..... r_p — — 6000 Ω

Transconductance g_m — — 11000 μ mho

DC Plate Current I_b — 800^d 140 mA

DC Grid-No. 2 Current .. I_{c2} — 56^d 2.0 mA

Cutoff DC Grid-No. 1

Voltage for $I_b = 1$ mA .. $E_{c1(co)}$ -125 — -50 V

Conditions:

Heater Voltage E_h ← Bogey Value → V

Peak Positive-Pulse

Plate Voltage^e e_{bm} 5000 — — V

DC Plate Voltage E_b — 55 175 V

DC Grid-No. 3 Voltage .. E_{c3} 30 30 30 V

DC Grid-No. 2 Voltage .. E_{c2} 130 125 125 V

DC Grid No. 1 Voltage .. E_{c1} 0 -25 V

MECHANICAL CHARACTERISTICS

Dimensional Outline..... JEDEC No. 12-117

Envelope JEDEC T12

Top Cap Small (JEDEC C1-1)

Base Large-Button Novar 9-Pin with Exhaust Tip
(JEDEC E9-88)

Terminal Connections

(See TERMINAL DIAGRAM) JEDEC 9QL

Type of Cathode..... Coated Unipotential

Operating Position Any



Electronic
Components

DATA 1

7-71

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MAXIMUM RATINGS — Design-Maximum Values ^f

For operation as a Horizontal-Deflection-Amplifier Tube in a 525-line, 30-frame system

DC Plate Supply Voltage	E _{bb}	990	V
Peak Positive-Pulse Plate Voltage ^g	e _{bm}	7500	V
Peak Negative-Pulse Plate Voltage	-e _{bm}	1100	V
DC Grid-No. 3 Voltage ^h	E _{c3}	75	V
DC Grid-No. 2 (Screen-Grid) Voltage ..	E _{c2}	220	V
Peak Negative-Pulse Grid-No. 1			
(Control-Grid) Voltage	-e _{c1m}	330	V
Heater-Cathode Voltage:			
Peak	e _{hkm}	+200	V
Average	E _{hk}	100	V
Heater Voltage:	E _h	5.7 to 6.9	V
Cathode Current:			
Peak	i _{km}	1200	mA
Average	I _{k(av)}	350	mA
Grid-No. 2 Input	P _{g2}	5	W
Plate Dissipation ^j	P _b	30	W
Temporary Overload Plate Dissipation ^k :	P _b	200	W
Envelope Temperature (at hottest point on envelope surface)	T _E	250	°C

MAXIMUM CIRCUIT VALUES

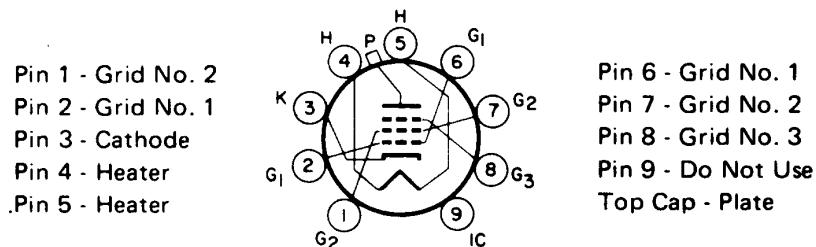
Grid-No. 1-Circuit Resistance:	R _{g(ckt)}	
Cathode bias		1.0 megohm
(with min. R _K = 100 Ω)		
Grid-leak bias		10.0 megohms
(with signal peak clamped to zero bias)		
Fixed bias		0.47 megohm
(where positive grid current is not drawn)		

- a Measured without external shield in accordance with the current issue of EIA Standard RS-191B.
- b With grid No. 3 and grid No. 2 connected, respectively, to cathode and plate at socket.
- c Conditions: E_b = E_{c2} = 125V, E_{c1} = -25V.
- d This value can be measured by a method involving a recurrent waveform such that the Maximum Ratings of the tube will not be exceeded.
- e Under pulse-duration condition specified in *Footnote g*.
- f As defined in the current issue of EIA Standard RS-239A.

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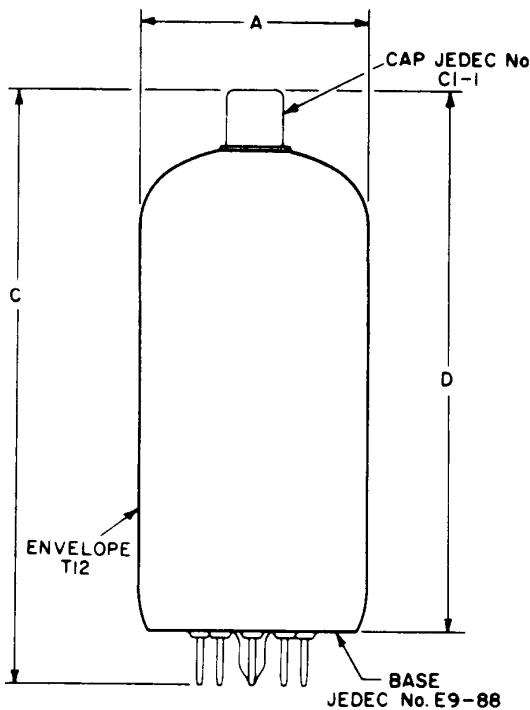
- g This rating is applicable when the duration of the voltage pulse does not exceed 15% of one horizontal scanning cycle. In a 525-line, 30-frame system, 15% of one scanning cycle is 10 μ s.
- h In horizontal-deflection-amplifier service, a positive voltage should be applied to grid No. 3 to reduce interference from "snivets", which may occur in both vhf and uhf television receivers, and to increase power output. A typical value is 30V.
- j An adequate bias resistor or other means is required to protect the tube in the absence of excitation.
- k Total continuous or accumulated time not to exceed 40 seconds.

TERMINAL DIAGRAM – JEDEC 9QL (Bottom View)



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DIMENSIONAL OUTLINE – JEDEC No. 12-117

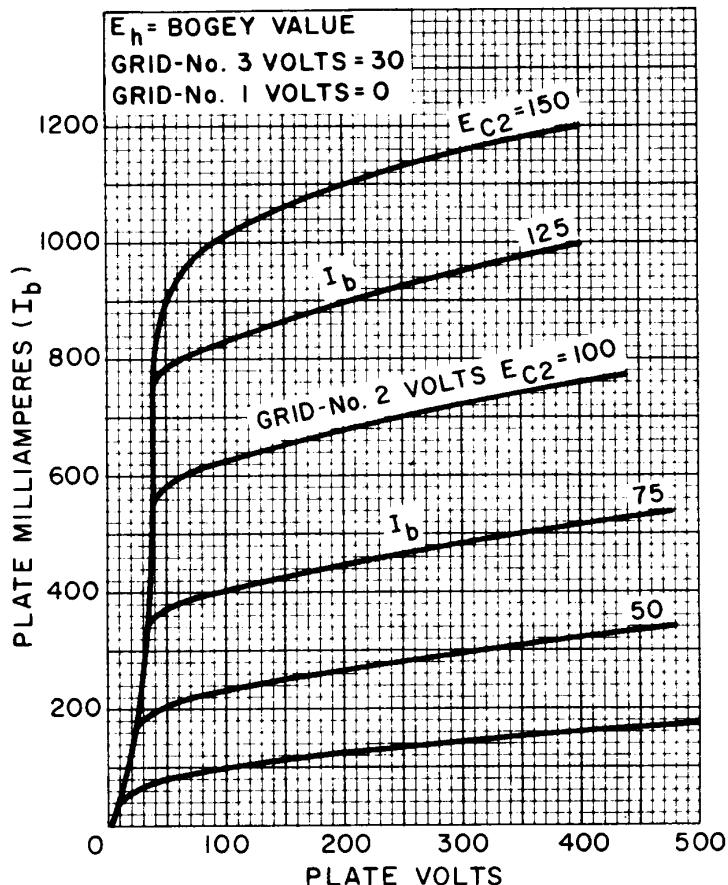


92CS-17689

DIMENSION	INCHES		MILLIMETERS	
	Min.	Max.	Min.	Max.
A	1.438*	1.562	36.6*	39.6
C		4.380	95.3	111.25
D	3.750	4.000	95.3	101.6
MILLIMETER DIMENSION DERIVED FROM INCH DIMENSION				
* Applies to the minimum diameter except in the area of the seal.				

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TYPICAL CHARACTERISTICS



RCA

Electronic
Components

DATA 3
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TYPICAL CHARACTERISTICS

