



ELECTRONIC TUBE REFERENCE

6JL8

Voltage - Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Medium-mu triode for voltage amplification or phase inversion combined with a sharp-cutoff pentode for power amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9DA	BASE PINS	9
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

9DA - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – 2P	B	P – Plate (Anode)	CONNECTED
PIN2 – 2G1	B	G1 – Control Grid	CONNECTED
PIN3 – 2K	B	K – Cathode	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – H	–	H – Heater	CONNECTED
PIN6 – 1P	A	P – Plate (Anode)	CONNECTED
PIN7 – 1G2	A	G2 – Screen Grid	CONNECTED
PIN8 – 1G1	A	G1 – Control Grid	CONNECTED
PIN9 – 1G3	A	G3 – Suppressor Grid	CONNECTED
PIN9 – IS	A	IS – Internal Screen	CONNECTED
PIN9 – K	A	K – Cathode	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	7500 Ω
MAXIMUM PLATE VOLTAGE	150 V
<i>Section 1 extracted from 6JL8.pdf.</i>	

SECTION2 Pentode	
PLATE RESISTANCE	60000 Ω
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	150 V
<i>Section 2 extracted from 6JL8.pdf.</i>	

Miniature dissimilar dual-section tube containing a medium-mu triode for voltage amplification or phase inversion and a sharp-cutoff pentode for power amplification.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1938 RAYTHEON

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
BCComponent + v v v v v s v v b e e s e e e e e e e s	100 V	BCComponent + v v v v v s v b e e s e e e e e e e s 100 volts g #
Totad DCoond Peak + + « + v« v v v v 0 v o 200	200 V	Totad DCoond Peak + + « + v« v v v v 0 v o 200 200 volts
Plote voftage 330	330 V	Plote voftage 330 330 volts . TERMINAL CONNECTIONS
Positive DC grid #1 voltege. 0	0 V	Positive DC grid #1 voltege. 0 0 volts . .)
Grid 82 dissipation	1.1 W	Grid 82 dissipation --- 1.1 watts :
Plate resistance {approx.). e e 7500	60000 Ω	Plate resistance {approx.). e e 7500 60000 ohms
Peak AF grid #1 voltage « « . . 0 e	3 V	Peak AF grid #1 voltage « « . . 0 e 3 volts
Moax.—signal platecurrent. L . . . 0	30 mA	Moax.—signal platecurrent. L . . . 0 30 ma
Load leSistance . = v ¢ « v 4 4 s e v e w4 s . . v e	5000 Ω	Load leSistance . = v ¢ « v 4 4 s e v e w4 s . . v e 5000 ohms
Max.~signdl power output. . . . « . . . 4 . e . . en	1.8 W	Max.~signdl power output. . . « . . . 4 . e . . en 1.8 watts

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input: gl to (htk+g2+g3+int. shield)	11 pF	Input: gl to (htk+g2+g3+int. shield) 11.0 pf :
Grid to plate: (gtoph L	4.4 pF	Grid to plate: (gtoph L. 4.4 pf :
Triode grid 10 penwdc'plare	0.018 pF	Triode grid 10 penwdc'plare 0.018 pf :

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pentode gl to triode plote oL L.,	0.005 pF	Pentode gl to triode plote oL L., 0.005 pf
Pentode plate to triode plate. L oL L L,	0.17 pF	Pentode plate to triode plate. L oL L L, 0.17 pf .

TUBE TINKER

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