



ELECTRONIC TUBE REFERENCE

5LJ8

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Combined triode-pentode used as an oscillator and mixer or frequency converter in television or VHF communications receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	5.6 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	5000 Ω
TRANSCONDUCTANCE	0.008 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	280 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	20 mA
<i>Promoted from published maximum-ratings/characteristics tables; additional source values are retained in TUBE_SECTION_PARAMETER.</i>	

SECTION2 Pentode	
PLATE RESISTANCE	125000 Ω
TRANSCONDUCTANCE	0.013 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	280 V
MAXIMUM SCREEN VOLTAGE	280 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	20 mA
<i>Promoted from published maximum-ratings/characteristics tables; additional source values are retained in TUBE_SECTION_PARAMETER.</i>	

Miniature type used as a combined oscillator and Pt μ A- μ S IA- μ k/ 3p mixer in vhf television receivers. Outlines section, 0* μ A- μ S CT lp 6B; requires 9-contact socket. Types 4LJ8 and 5LJ8 are identical with type 6LJ8 except for heater ratings. 9GF 4LJ8 5LJ8 6LJ8

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1975 RCA RC30

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

1975 RCA RC30

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
For use with "Flyback Transformer*" high voltage supply	3 megohms	Published value from supplied target entry
Heater Voltage (ac/dc)	6.3 volts	Published value from supplied target entry
Heater Current	0.4 ampere	Published value from supplied target entry
Heater Warm-up Time (Average)	11 seconds	Published value from supplied target entry
Plate Voltage	280 volts	Published value from supplied target entry
Grid-No	2	Published value from supplied target entry
I Supply Voltage	280	Published value from supplied target entry
Grid-No	300	Published value from supplied target entry
Cathode Current	20 mA	Published value from supplied target entry
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0 volts	Published value from supplied target entry
Plate Dissipation	2 watts	Published value from supplied target entry
For grid-No	140 volts	Published value from supplied target entry
For grid-No	300 volts	Published value from supplied target entry
Plate Voltage	125 volts	Published value from supplied target entry
Grid-No	125 volts	Published value from supplied target entry
Amplification Factor	40	Published value from supplied target entry
Plate Resistance (Approx.)	125000 ohms	Published value from supplied target entry
Transconductance	13000	Published value from supplied target entry
Plate Current	12 mA	Published value from supplied target entry
Grid-No	3.5 mA	Published value from supplied target entry

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current	0.45 ampere	Published value from supplied target entry
Plate Voltage	350 volts	Published value from supplied target entry
Grid-No	330 volts	Published value from supplied target entry
Plate Dissipation	2.5 volts	Published value from supplied target entry
For grid-No	0.55 volts	Published value from supplied target entry
Grid No.1 Voltage	-2 volts	Published value from supplied target entry

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
For interval of	20 seconds	Published value from supplied target entry

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Plate	1.8 pF	Published value from supplied target entry
Grid to Cathode, Heater, Pentode Cathode, Pentode Grid No	3	Published value from supplied target entry
Plate to Cathode, Heater, Pentode Cathode, Pentode Grid No	3	Published value from supplied target entry
Plate to Cathode, Heater, Grid No	3	Published value from supplied target entry
Heater to Cathode (Each Unit)	3.2 pF	Published value from supplied target entry

TUBE TINKER

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