

ELECTRONIC TUBE REFERENCE

4MK8

Voltage - Dual Pentode electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
PENTODE-PENTODE

Sharp-cutoff twin pentode for television sync separation, clipping, AGC, and low-level color-demodulator circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9F6	BASE PINS	9
NOMINAL HEATER	4.2 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
TRANSCONDUCTANCE	0.0011 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	1.1 W
MAXIMUM SCREEN DISSIPATION	0.75 W
MAXIMUM CATHODE CURRENT	32 mA
Identical twin pentode sections compressed to one section row; values apply to each unit.	

SECTION2 Pentode	
TRANSCONDUCTANCE	0.0011 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	1.1 W
MAXIMUM SCREEN DISSIPATION	0.75 W
MAXIMUM CATHODE CURRENT	32 mA
<i>Second physical pentode section; identical twin section.</i>	

Sharp-cutoff twin pentode used in television sync-separator, clipper, AGC and low-level color-demodulator circuits. Extracted from the supplied RCA Receiving Tube Manual excerpt.

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 · Pentode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.3 to plate capacitance	2 pF	EachSection
Grid No.1 to all electrodes capacitance	6 pF	EachSection
Grid No.3 to all electrodes capacitance	3.6 pF	EachSection
Plate to all electrodes capacitance	3 pF	EachSection
Inter-section grid No.3 capacitance	0.015 pF	Max

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	ClassA
Screen-grid voltage	67.5 V	ClassA
Plate current	2 mA	ClassA
Cathode current	8.5 mA	BothUnitsOperating
Screen-grid current	4.4 mA	BothUnitsOperating

TUBE TINKER

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and their source documents.

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