



ELECTRONIC TUBE REFERENCE

6AF9

Voltage - Dual Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-PENTODE

Dissimilar dual pentode for television receivers, combining a video-output section with a sound-IF, AGC, and sync-separator section.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	10
NOMINAL HEATER	6.3 V / 850 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	32000 Ω
TRANSCONDUCTANCE	0.022 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	5.1 W
MAXIMUM CATHODE CURRENT	60 mA
Unit 1 video-output pentode.	

SECTION2 Pentode	
PLATE RESISTANCE	160000 Ω
TRANSCONDUCTANCE	0.0085 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	15 mA
<i>Unit 2 sound-IF/AGC/sync-separator pentode.</i>	

Dual pentode for television receivers, combining a video-output pentode with a sound-IF/AGC/sync-separator pentode.

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.

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Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Supply Voltage	550 V	Section1
Grid No.2 Supply Voltage	550 V	Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	170 V	Section1
Grid No.2 Voltage	170 V	Section1
Control Grid Voltage	-2.6 V	Section1
Plate Current	30 mA	Section1
Grid No.2 Current	7.2 mA	Section1

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Section 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Supply Voltage	550 V	Section2
Grid No.2 Supply Voltage	550 V	Section2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	150 V	Section2
Grid No.2 Voltage	150 V	Section2
Control Grid Voltage	-2.1 V	Section2
Plate Current	10 mA	Section2
Grid No.2 Current	3 mA	Section2

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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