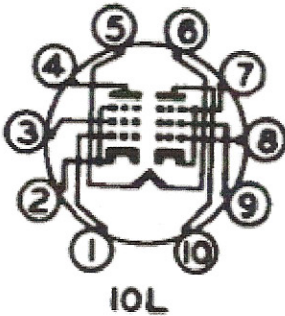


6AF9 Dual Pentode

Base & Bulb (RCA RC-29 - 1975)



Application

Miniature type used in television receiver applications. Unit No.1 is used as a video output pentode, and unit No.2 as a sound amplifier, agc amplifier, or sync separator. Requires miniature 10-contact socket.

Mechanical Data

EIA Base 10L

Electrical Data

Heater Voltage 6.3 V
Heater Current 0.85 A

Direct Interelectrode Capacitances (approx)

Pentode 1

Input 12 pf
Output 7 pf
Grid to Plate 0.105 pf

Direct Interelectrode Capacitances (approx)

Pentode 2

Input 10 pf
Output 11 pf
Grid to Plate 0.14 pf

Maximum Ratings (Design Center Values)

Pentode 1

Plate Voltage 550 V
Grid No. 2 Voltage 250 V

Plate Dissipation	5.1 W
Grid No. 2 Dissipation	2.5 W

Maximum Ratings (Design Center Values)

Pentode 2

Plate Voltage	550 V
Grid No. 2 Voltage	250 V
Plate Dissipation	1.5 W
Grid No. 2 Dissipation	0.5 W

Characteristics and Typical Operation

Pentode 1 Class A Amplifier

Plate Voltage	170 V
Grid No. 2 Voltage	170 V
Grid No. 1 Voltage	-2.6 V
Plate Resistance (approx)	32K Ω
Transconductance	22K μS
Plate Current	30 mA
Grid No. 2 Current	7.2 mA

Characteristics and Typical Operation

Pentode 2 Class A Amplifier

Plate Voltage	150 V
Grid No. 2 Voltage	150 V
Grid No. 1 Voltage	-2.1 V
Plate Resistance (approx)	160K Ω
Transconductance	8500 μS
Plate Current	10 mA
Grid No. 2 Current	3 mA