



ELECTRONIC TUBE REFERENCE

CONSOLIDATED TECHNICAL DATA

6JG5

1 SECTION
CONSTRUCTION
PENTODE

Voltage Pentode - Sharp Cutoff (single) electronic tube

Miniature sharp-cutoff pentode designed primarily as the video-output amplifier in color television receivers. Its high-frequency wideband characteristics distinguish it from ordinary audio power-output pentodes.

GENERAL CHARACTERISTICS

BASE DESIGNATION	E9-1	BASE PINS	9
NOMINAL HEATER	6.3 V / 525 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	60000 Ω
TRANSCONDUCTANCE	0.0115 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	5 W
MAXIMUM SCREEN DISSIPATION	1.1 W
Published electrical data extracted from the approved RCA source; pulse-only ratings are retained in parameter rows rather than promoted as continuous ratings.	

The 6JG5 is a miniature sharp-cutoff pentode designed primarily as the video-output amplifier in color television receivers.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Pentode

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	11 pF	—



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

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
6.3;	525 mA	Other
Plate Voltage	330 V	MaximumRating
Grid-No.3 (Suppressor-Grid) Voltage, Positive value	0 V	MaximumRating
Grid-No.2 (Screen-Grid) Supply Voltage	330 V	MaximumRating
Grid-No.1 (Control-Grid) Voltage, Positive value	0 V	MaximumRating
Plate Dissipation	5 W	MaximumRating
Grid-No.2 Input	1.1 W	MaximumRating
For fixed-bias operation	0.25 megohm	MaximumCircuitValue
For cathode-bias operation	1 megohm	MaximumCircuitValue

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	200 V	Characteristic;PublishedValue1
Plate Voltage	60 V	Characteristic;PublishedValue2
Grid-No.2 Supply Voltage	150 V	Characteristic;PublishedValue1
Grid-No.2 Supply Voltage	150 V	Characteristic;PublishedValue2
Grid-No.1 Voltage	0 V	Characteristic
Cathode-Bias Resistor, Bypassed	100 ohm	Characteristic
Plate Resistance (Approx.)	60000 ohm	Characteristic
Transconductance (Grid No.1 to Plate)	11500 uS	Characteristic
Plate Current	25 mA	Characteristic;PublishedValue1
Plate Current	55 mA	Characteristic;PublishedValue2
5.5	18 mA	Characteristic
of 100 nA.	10 V	Characteristic