



ELECTRONIC TUBE REFERENCE

6AG9

Voltage Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Combined triode-pentode for television video, IF, AGC, sync, burst, band-pass, or related signal-processing stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	E12	BASE PINS	12
NOMINAL HEATER	6.3 V / 820 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	40000 Ω
TRANSCONDUCTANCE	0.03 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM SCREEN DISSIPATION	1.5 W
Frame-grid video pentode section.	

SECTION2 Triode	
PLATE RESISTANCE	8500 Ω
TRANSCONDUCTANCE	0.0046 S
AMPLIFICATION FACTOR	39
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.1 W
<i>Triode section for AGC amplifier service.</i>	

Medium-mu triode plus frame-grid sharp-cutoff pentode for television AGC and video-amplifier service.

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltageNominal	6.3 V	—
HeaterOrFilamentCurrentNominal	820 mA	—
Maximum Plate Voltage	330 V	—
Maximum Screen Voltage	200 V	—
Maximum Plate Dissipation	10 W	—
Maximum Screen Dissipation	1.5 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	40000 Ohm	—
Transconductance	30000 uS	—

1968 GENERAL ELECTRIC CO

Section 2 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	8500 Ohm	—
Transconductance	4600 uS	—
Amplification Factor	39	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	330 V	—
Maximum Plate Dissipation	1.1 W	—

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	Section2
Grid No.2 Voltage	150 V	Section2
Cathode Bias Resistor	66 ohm	Section2
Plate Current	28 mA	Section2
Grid No.2 Current	5.6 mA	Section2
Grid Voltage at 100 uA plate current	-5.4 V	Section2

1975 RCA RC30

Section 2 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	150 V	Section1
Cathode Bias Resistor	350 ohm	Section1
Plate Current	6.2 mA	Section1
Grid Voltage at 20 uA plate current	-7 V	Section1