

Special Ratings & Performance Data

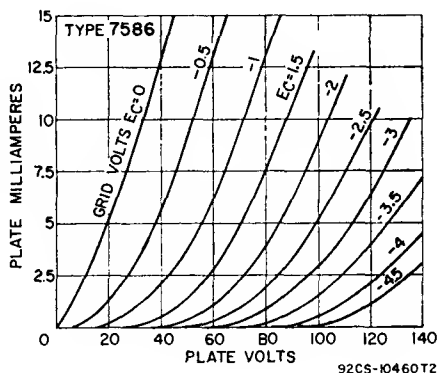
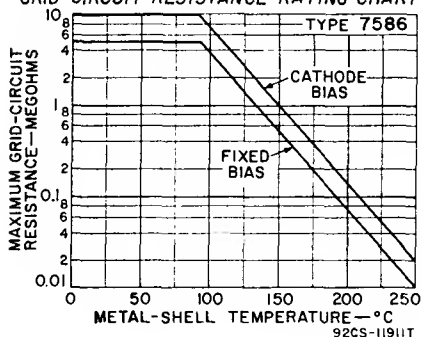
SHOCK RATING

Peak Impact Acceleration 1000 max. g

FATIGUE RATING

Peak Vibrational Acceleration 2.5 max. g

GRID-CIRCUIT-RESISTANCE RATING CHART

**7587**INDUSTRIAL
TYPE

SHARP-CUTOFF TETRODE

Nuvistor type sharp-cutoff general-purpose tetrode for use in a wide variety of industrial applications. Outlines section, 1A1; requires nuvistor socket.

Heater Voltage (ac/dc)

Heater Current

Peak Heater-Cathode Voltage

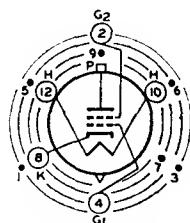
Direct Interelectrode Capacitances:

Grid No.1 to Plate

Grid No.1 to Cathode, Grid No.2, Shell, and Heater

Plate to Cathode, Grid No.2, Shell, and Heater

Heater to Cathode

INDEX = LARGE LUG
• • SHORT PIN-1C**12AS**6.3 $\pm$ 0.6 volts

0.150 ampere

 $\pm$ 100 max. volts

0.015 max. pF

7.0 pF

1.4 pF

1.4 pF

Industrial Service

MAXIMUM RATINGS (Absolute-Maximum Values)

For operation at any altitude

Plate Supply Voltage 330 volts

Plate Voltage 250 volts

Grid-No.2 (Screen-Grid) Supply Voltage 330 volts

Grid-No.2 Voltage 110 volts

Grid-No.1 (Control-Grid) Voltage:

Negative-bias value 55 volts

Peak-positive value 2 volts

Cathode Current 20 mA

Grid-No.1 Current 2 mA

Grid-No.2 Input 0.2 watt

Plate Dissipation 2.2 watts

MAXIMUM CIRCUIT VALUES

Grid-Circuit Resistance:•

For fixed-bias operation 0.5 megohm

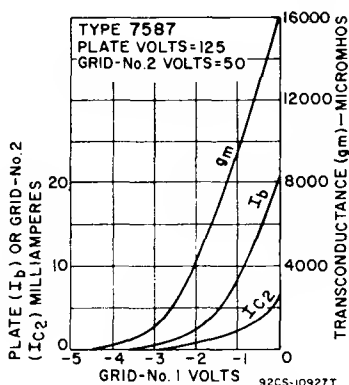
For cathode-bias operation 1 megohm

• For operation at metal-shell temperature up to 150°C.

Class A₁ Amplifier

CHARACTERISTICS

Plate Supply Voltage	125	volts
Grid-No.2 Supply Voltage	50	volts
Cathode Resistor	68	ohms
Plate Resistance (Approx.)	0.2	megohm
Transconductance	10600	μ mhos
Plate Current	10	mA
Grid-No.2 Current	2.7	mA
Grid-No.1 Voltage (Approx.) for plate μ A = 10	-4.5	volts



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SHOCK RATING

Impact Acceleration	1000 max.	g
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FATIGUE RATING

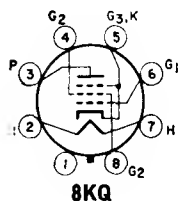
Vibrational Acceleration	2.5 max.	g
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Refer to chart at end of section.

7591

POWER PENTODE

7591A



Glass octal type used as audio-frequency power-output tube in high-quality audio applications. Outlines section, 13D; requires octal socket. Heater: volts (ac/dc), 6.3; amperes, 0.8; maximum heater-cathode volts, ± 200 peak, 100 average.

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage	550	volts
Grid-No.2 (Screen-Grid) Voltage	440	volts
Cathode Current	90	mA
Plate Dissipation	19	watts
Grid-No.2 Input	3.3*	watts

TYPICAL OPERATION AND CHARACTERISTICS

Plate Voltage	300	volts
Grid-No.2 Voltage	300	volts
Grid-No.1 (Control-Grid) Voltage	-10	volts
Peak AF Grid-No.1 Voltage	10	volts
Zero-Signal Plate Current	60	mA
Maximum-Signal Plate Current	75	mA
Zero-Signal Grid-No.2 Current	8	mA