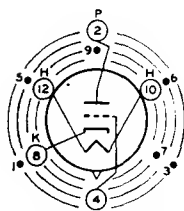


Amplification Factor	8	
Plate Resistance (Approx.)	1700	ohms
Transconductance	4700	μ mbos
Zero-Signal Plate Current	40	mA
Maximum-Signal Plate Current	44	mA
Load Resistance	5000	ohms
Total Harmonic Distortion (Approx.)	5	per cent
Maximum-Signal Power Output	1.4	watts

* Grid No.2 connected to plate.

In push-pull circuits where grid No.2 of each tube is connected to a tap on the plate winding of the output transformer, this maximum rating is 500 volts.

▲ Applied for short interval (2 seconds) so as not to damage tube.



12AQ

MEDIUM-MU TRIODE

7586 INDUSTRIAL TYPE

Nuvistor type, medium-mu general purpose triode for use as an amplifier or oscillator at frequencies extending into the UHF region. Outlines section, 1; requires nuvistor socket.

Heater Voltage (ac/dc)	6.3 $\pm$ 0.6	volts
Heater Current	0.135	ampere
Peak Heater-Cathode Voltage	$\pm$ 100 max.	volts
Direct Interelectrode Capacitance (Approx.):		
Grid to Plate	2.2	pF
Grid to Cathode, Heater, and Shell	4.2	pF
Plate to Cathode, Heater, and Shell	1.6	pF
Plate to Cathode	0.26	pF
Heater to Cathode	1.4	pF

Industrial Service

MAXIMUM RATINGS (Absolute-Maximum Values)

For operation at any altitude

Plate Supply Voltage	330	volts
Plate Voltage	110	volts
Grid Voltage:		
Negative-bias value	55	volts
Peak-positive value	4	volts
Grid Current	2	mA
Cathode Current	15	mA
Plate Dissipation	1	watt

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 of 150°C. For operation at other metal-shell temperatures, see Grid-Circuit Resistance Rating Chart.

Class A₁ Amplifier

CHARACTERISTICS

Plate Supply Voltage	—	—	75	volts
Plate Voltage	26.5	40	—	volts
Grid Supply Voltage	0	0	0	volt
Cathode Resistor	—	—	100	ohms
Amplification Factor	31	35	35	
Grid Resistor	0.5	.5	—	megohm
Plate Resistance (Approx.)	4400	3000	3000	ohms
Transconductance	7000	11500	11500	μ mbos
Plate Current	2.8	7.5	10.5	mA
Grid Voltage (Approx.) for plate μ A = 10	—	—	—7	volts

Special Ratings & Performance Data

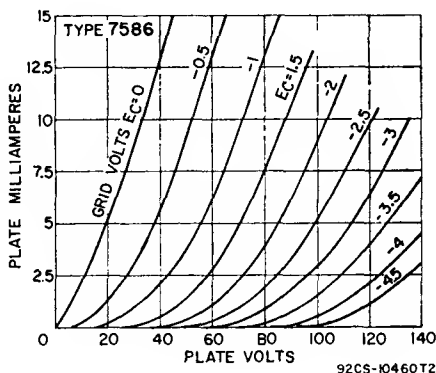
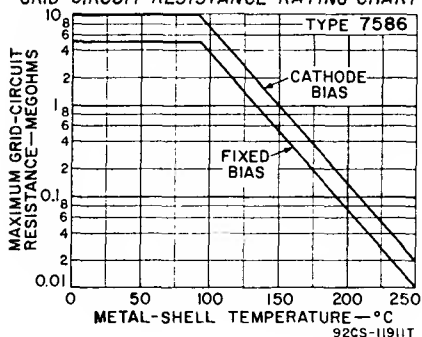
SHOCK RATING

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

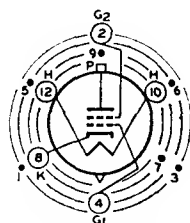
Direct Interelectrode Capacitances:

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—IC

12AS

6.3 ± 0.6 volts
0.150 ampere
±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.