

Direct Interelectrode Capacitances:

Grid No.1 to Plate	0.09	pF
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3	10	pF
Plate to Cathode, Heater, Grid No.2, and Grid No.3	2.8	pF

Class A₁ Amplifier

MAXIMUM RATINGS (Absolute-Maximum Values)

Plate Voltage	330	volts
Grid-No.2 (Screen-Grid) Voltage	300	volts
Grid-No.1 Voltage	—125	volts
Plate Dissipation	6.0	watts
Grid-No.1 Current	3.0	mA
Cathode Current	40	mA

TYPICAL OPERATION AND CHARACTERISTICS

Plate Voltage	300	volts
Grid-No.2 Voltage	150	volts
Grid-No.1 (Control-Grid) Voltage	—3.5	volts
Plate Resistance (Approx.)	90000	ohms
Transconductance	9000	μ mhos
Plate Current	16	mA
Grid-No.2 Current	3.2	mA
Grid-No.1 Voltage (Approx.) for plate μ A = 100	—8	volts

Refer to chart at end of section.

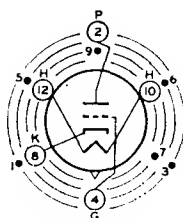
8136

Refer to chart at end of section.

8203

Refer to chart at end of section.

8233



INDEX=LARGE LUG
●=SHORT PIN—IC

12AQ

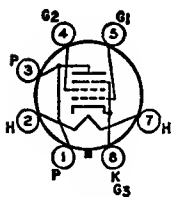
MEDIUM-MU TRIODE

8393

**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. The 8393 is the same as the 7586 except for the following items:

Heater Voltage (ac/dc)	13.5 $\pm$ 1.4	volts
Heater Current	0.060	ampere
Peak Heater-Cathode Voltage	$\pm$ 100 max.	volts
Direct Interelectrode Capacitance (Approx.):		
Grid to Plate	2.4	pF
Grid to Cathode, Heater, and Shell	4.4	pF
Plate to Cathode, Heater, and Shell	1.6	pF
Plate to Cathode	0.26	pF
Heater to Cathode	1.7	pF



8LY

BEAM POWER TUBE

8417

Glass octal type used as output amplifier in high-fidelity, high-power sound systems. Outlines section, 19J; requires octal socket. This tube, like other power-handling tubes, should be adequately ventilated. Heater: volts (ac/dc), 6.3; amperes, 1.6; maximum heater-cathode volts, $\pm$ 200 peak, 100 average.

Class A₁ Amplifier**MAXIMUM RATINGS (Design-Maximum Values)**

Plate Voltage	660	volts
Grid-No.2 (Screen-Grid) Voltage	500	volts
Cathode Current	200	mA
Plate Dissipation*	35	watts
Grid-No.2 Input	5*	watts

CHARACTERISTICS

Plate Voltage	300	volts
Grid-No.2 Voltage	300	volts
Grid-No.1 (Control-Grid) Voltage	-12	volts
Grid-No.1 Voltage for plate current of 1 mA	-37	volts
Plate Resistance	16000	ohms
Transconductance	23000	μmhos
Plate Current	100	mA
Grid-No.2 Current	5.5	mA
Triode Amplification Factor	16.5	

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:		
For fixed-bias operation	1	megohm
For cathode-bias operation	0.25	megohm

Push-Pull Class AB₁ Amplifier**MAXIMUM RATINGS (Same as for Class A₁ Amplifier)****TYPICAL OPERATION (Values are for two tubes)**

Plate Supply Voltage	400	560	volts
Grid-No.2 Supply Voltage	275	300	volts
Grid-No.1 Voltage	-13	-15.5	volts
Peak AF Grid-to-Grid Voltage	24	31	volts
Zero-Signal Plate Current	150	100	mA
Maximum-Signal Plate Current	294	270	mA
Zero-Signal Grid-No.2 Current	4.4	3.4	mA
Maximum-Signal Grid-No.2 Current	34	31	mA
Effective Load (Plate-to-Plate)	2800	4200	ohms
Total Harmonic Distortion	2.5	2	per cent
Maximum Signal Power Output	65	100	watts

* A bias resistor or other means is required to protect the tube in absence of excitation.

* Grid-No.2 may reach 8 watts during peak levels of speech and music levels.

8532 Refer to chart at end of section.

8532/6J4WA Refer to chart at end of section.

8532W Refer to chart at end of section.

8627 Refer to chart at end of section.

8627A Refer to chart at end of section.

8628 Refer to chart at end of section.

8808 Refer to chart at end of section.

8950 Refer to chart at end of section.

9001 Refer to chart at end of section.

9002 Refer to chart at end of section.

9003 Refer to chart at end of section.

9005 Refer to chart at end of section.

9006 Refer to chart at end of section.