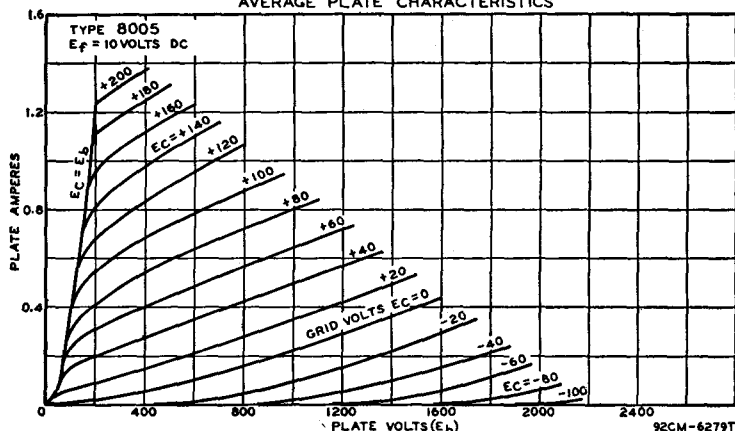


AVERAGE PLATE CHARACTERISTICS

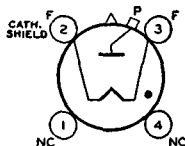


HALF-WAVE MERCURY-VAPOR RECTIFIER

8008

Coated-filament type used in power supply of transmitting and industrial equipment. Maximum peak inverse anode volts, 10,000; maximum average anode amperes, 1.25. Requires

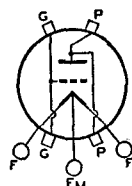
Super-Jumbo four-contact socket and may be mounted in vertical position only, base down. OUTLINE 54, *Outlines* Section. Except for physical dimension and base, the 8008 is identical to type 872-A.



POWER TRIODE

8012-A

Thoriated-tungsten-filament type having filament mid-tap used as rf power amplifier and oscillator. May be used with full input up to 500 Mc. For operation at 600 Mc, plate voltage should be reduced to 70 per cent of maximum rating. May be mounted in vertical position only, filament end down or up. OUTLINE 18, *Outlines* Section. Forced-air cooling is required when plate dissipation exceeds 75 per cent of



the maximum rated value. Plate shows an orange-red color when tube is operated at maximum CCS ratings. The 8012-A is used principally for renewal purposes.

FILAMENT VOLTAGE (AC/DC)	6.3	volts
FILAMENT CURRENT	1.92	amperes
AMPLIFICATION FACTOR	18	
DIRECT INTERELECTRODE CAPACITANCES:		
Grid to plate	2.5	μf
Grid to filament mid-tap	2.7	μf
Plate to filament mid-tap	0.4	μf

Maximum CCS Ratings:

DC PLATE VOLTAGE	800 max
DC GRID VOLTAGE	-200 max
DC PLATE CURRENT	65 max
DC GRID CURRENT	20 max

Class C Telephony*

800 max
-200 max
65 max
20 max

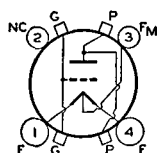
Class C Telegraphy#

1000 max	volts
-200 max	volts
80 max	ma
20 max	ma

PLATE INPUT.....	33 max	50 max	watts
PLATE DISSIPATION.....	27 max	40 max	watts

▲ Carrier conditions per tube for use with a maximum modulation factor of 1.0.

Key-down conditions per tube without amplitude modulation. Amplitude modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 115 per cent of the carrier conditions.



G CAPS NEARER BASE
P CAPS NEARER BULB TIP

POWER TRIODE

Thoriated-tungsten-filament type having filament mid-tap used as rf power amplifier and oscillator. May be used with full input up to 500 Mc. For operation at 600 Mc, plate voltage

8025-A

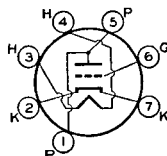
should be reduced to 70 per cent of maximum ratings. Class C Telephony maximum plate dissipation, CCS 40 watts with forced-air cooling, ICAS 30 watts with natural cooling. Requires Small four-contact socket and may be mounted in vertical position only, base down or up. OUTLINE 27, *Outlines* Section. When forced-air cooling is required, an air flow from a fan should be directed on the bulb. Plate shows an orange-red color when tube is operated at maximum CCS ratings and a bright orange-red color at maximum ICAS ratings.

FILAMENT VOLTAGE (AC/DC).....	6.8	volts
FILAMENT CURRENT.....	1.92	amperes
AMPLIFICATION FACTOR.....	18	
DIRECT INTERELECTRODE CAPACITANCES:		
Grid to plate.....	3.0	μf
Grid to filament mid-tap.....	2.7	μf
Plate to filament mid-tap.....	0.4	μf

	Class C Telephony [▲]		Class C Telephony [#]		
	Forced-Air Cooling CCS	Natural Cooling ICAS	Forced-Air Cooling CCS	Natural Cooling ICAS	
Maximum Ratings:					
DC PLATE VOLTAGE.....	800 max	800 max	1000 max	1000 max	volts
DC GRID VOLTAGE.....	-200 max	-200 max	-200 max	-200 max	volts
DC PLATE CURRENT.....	65 max	65 max	80 max	80 max	ma
DC GRID CURRENT.....	20 max	20 max	20 max	20 max	ma
PLATE INPUT.....	50 max	33 max	75 max	50 max	watts
PLATE DISSIPATION.....	27 max	20 max	40 max	30 max	watts

▲ Carrier conditions per tube for use with a maximum modulation factor of 1.0.

Key-down conditions per tube without amplitude modulation. Amplitude modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 115 per cent of the carrier conditions.



MEDIUM-MU TRIODE

Seven-pin miniature heater-cathode type used as af amplifier and as rf amplifier and oscillator at frequencies up to 500 Mc. Class A₁ Amplifier maximum CCS plate dissipation (de-

9002

sign-center value), 1.6 watts. Direct interelectrode capacitances: grid to plate, 1.4 μf ; grid to cathode and heater, 1.2 μf ; plate to cathode and heater, 1.1 μf . Requires Miniature seven-contact socket and may be mounted in any position. OUTLINE 5, *Outlines* Section. Except for interelectrode capacitances, the 9002 is electrically identical with type 955.