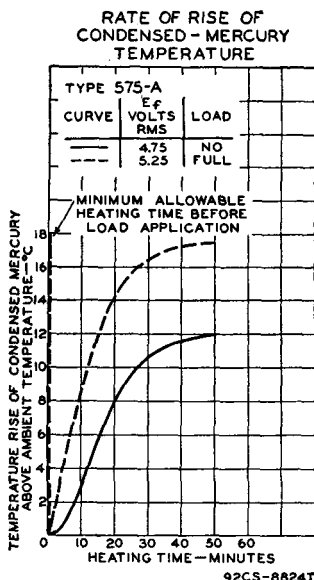
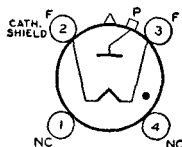




HALF-WAVE MERCURY- VAPOR RECTIFIER

673

Coated-filament type used in power supply of transmitting and industrial equipment. Maximum peak inverse anode volts, 15000; maximum average anode amperes, 1.5. Requires



Super-Jumbo four-contact socket and may be mounted in vertical position only, base down. OUTLINE 62, *Outlines* Section. The 673 is electrically identical with the 575-A.

POWER TRIODE

800

Thoriated-tungsten-filament type used as af power amplifier and modulator and as rf power amplifier and oscillator. May be used with full input up to 60 Mc. Requires Small four-contact socket and may be mounted in vertical position only, base up or down. OUTLINE 38, *Outlines* Section. Filament volts (ac/dc), 7.5; amperes, 3.1. Direct interelectrode capacitances: grid to plate, 2.5 $\mu\mu\text{f}$; grid to filament, 2.8 $\mu\mu\text{f}$;

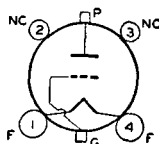
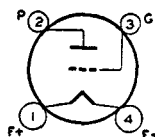


plate to filament, 2.8 $\mu\mu\text{f}$. Maximum CCS ratings as RF POWER AMPLIFIER AND OSCILLATOR: dc plate volts, 1250 max; dc grid volts, -400 max; dc plate milliamperes, 80 max; dc grid milliamperes, 25 max; plate input, 100 max watts; plate dissipation, 35 max watts. Plate shows no color when tube is operated at maximum CCS ratings. The 800 is used principally for renewal purposes.

POWER TRIODE

801-A

Thoriated-tungsten-filament type used as af power amplifier and modulator and as rf power amplifier and oscillator. May be used with full input up to 60 Mc and with reduced input up to 120 Mc. Requires Small four-contact socket and may be mounted in vertical position with base down, or in horizontal position with pins 1 and 4 in vertical plane. OUTLINE 29, *Outlines* Section. The 801-A is used principally for renewal purposes.



FILAMENT VOLTAGE (AC/DC).....	7.5	volts
FILAMENT CURRENT.....	1.25	amperes
AMPLIFICATION FACTOR.....	8	
DIRECT INTERELECTRODE CAPACITANCES:		
Grid to plate.....	6	μf
Grid to filament.....	4.5	μf
Plate to filament.....	1.5	μf

Maximum CCS Ratings:

	Class B Modulator	Class C Telegraphy [#]	
DC PLATE VOLTAGE.....	600 <i>max</i>	600 <i>max</i>	volts
DC GRID VOLTAGE.....	—	-200 <i>max</i>	volts
DC PLATE CURRENT.....	70 ^{••} <i>max</i>	70 <i>max</i>	ma
DC GRID CURRENT.....	—	15 <i>max</i>	ma
PLATE INPUT.....	42 ^{••} <i>max</i>	42 <i>max</i>	watts
PLATE DISSIPATION.....	20 [■] <i>max</i>	20 <i>max</i>	watts

[#] 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.

• For maximum-signal conditions.

■ Averaged over any audio-frequency cycle of sine-wave form.

POWER PENTODE

Heater-cathode type used as af power amplifier and modulator and as rf power amplifier and oscillator. May be used with full input up to 30 Mc. For operation at 55 Mc, plate voltage

802

and plate input should be reduced to 77 per cent of maximum ratings; at 100 Mc, to 55 per cent. Class C Telegraphy maximum plate dissipation, CCS 10 watts, ICAS 13 watts. Requires Medium seven-contact socket and may be mounted in any position. OUTLINE 31, *Outlines* Section. Plate shows no color when the tube is operated at maximum CCS or ICAS ratings.

HEATER VOLTAGE (AC/DC).....	6.3	volts
HEATER CURRENT.....	0.9	ampere
TRANSCONDUCTANCE (For plate current of 20 milliamperes).....	2250	μmhos
DIRECT INTERELECTRODE CAPACITANCES:		
Grid No.1 to plate (With external shielding).....	0.15 <i>max</i>	μf
Grid No.1 to cathode, grid No.3, grid No.2, internal shield, and heater.....	11	μf
Plate to cathode, grid No.3, grid. No.2, internal shield, and heater.....	6.8	μf

AF POWER AMPLIFIER AND MODULATOR—Class A

Maximum Ratings:

	CCS	ICAS	
DC PLATE VOLTAGE.....	500 <i>max</i>	600 <i>max</i>	volts
DC GRID-NO.2 (SCREEN-GRID) VOLTAGE.....	250 <i>max</i>	250 <i>max</i>	volts
PLATE INPUT.....	15 <i>max</i>	18 <i>max</i>	watts
GRID-NO.2 INPUT.....	3 <i>max</i>	3 <i>max</i>	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode.....	100 <i>max</i>	100 <i>max</i>	volts
Heater positive with respect to cathode.....	100 <i>max</i>	100 <i>max</i>	volts

Typical Operation:■

DC Plate Voltage.....	400	500	500	600	volts
DC Grid-No.3 (Suppressor-Grid) Voltage.....	0*	0*	0*	40	volts
DC Grid-No.2 Voltage.....	250	175	225	250	volts
DC Grid-No.1 (Control-Grid) Voltage [•]	-18	-10	-17	-18.5	volts
From cathode resistor of.....	450	325	530	490	ohms
Peak AF Grid-No.1 Voltage.....	18	10	17	18.5	volts
DC Plate Current.....	30	25	25	30	ma
DC Grid-No.2 Current.....	10	6	7	8	ma
Load Resistance.....	10000	18000	16000	13200	ohms
Total Harmonic Distortion.....	8	4	10	9	per cent
Power Output.....	5.5	4	6.5	7.6	watts