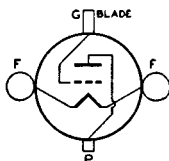


DC GRID VOLTAGE	-400 <i>max</i>	volts
DC PLATE CURRENT	120 <i>max</i>	ma
PLATE INPUT	150 <i>max</i>	watts
PLATE DISSIPATION	100 <i>max</i>	watts

POWER TRIODE

849

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 3 Mc and with reduced input up to 30 Mc. Tube may be mounted in vertical position with filament end up, or in horizontal position with plate in vertical plane. Maximum over-all length, 14 $\frac{3}{8}$ inches; maximum diameter, 4 $\frac{1}{16}$ inches. Filament volts

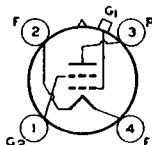


(ac/dc), 11; amperes, 5. Direct interelectrode capacitances: grid to plate, 34 μ f; grid to filament, 17 μ f; plate to filament, 3 μ f. Maximum CCS ratings as RF POWER AMPLIFIER AND OSCILLATOR: dc plate volts, 2500 *max*; dc grid volts, -500 *max*; dc plate amperes, 0.35 *max*; dc grid amperes, 0.125 *max*; plate input, 875 *max* watts; plate dissipation, 400 *max* watts. Plate shows cherry-red color when tube is operated at maximum CCS ratings. The 849 is a DISCONTINUED type listed for reference only.

POWER TETRODE

850

Thoriated-tungsten-filament type used as rf power amplifier and oscillator at frequencies up to 15 Mc. Requires Jumbo four-contact socket and may be mounted in vertical position with base up or down, or in horizontal position with pins 1 and 3 in vertical plane. OUTLINE 51, Outlines Section. Filament volts (ac/dc), 10; amperes, 3.25. Direct interelectrode capacitances: grid No.1 to plate (with external shield-

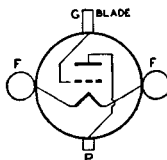


ing), 0.25 *max* μ f; grid No.1 to filament and grid No.2, 17 μ f; plate to filament and grid No.2, 25 μ f. Maximum CCS ratings as RF POWER AMPLIFIER AND OSCILLATOR: dc plate volts, 1250 *max*; dc grid-No.2 volts, 400 *max*; dc grid-No. 1 volts, -400 *max*; dc plate milliamperes, 175 *max*; dc grid-No. 1 milliamperes, 40 *max*; plate input, 220 *max* watts; grid-No.2 input, 10 *max* watts; plate dissipation, 100 *max* watts. Plate shows a barely perceptible red color when tube is operated at maximum CCS ratings. The 850 is a DISCONTINUED type listed for reference only.

POWER TRIODE

851

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 3 Mc. For operation at 7 Mc, plate voltage and plate input should be reduced to 75 per cent of maximum ratings; at 15 Mc, to 50 per cent. Tube may be mounted in vertical position with filament end up, or in horizontal position with plate in vertical plane. OUTLINE 64, Outlines Section. The 851 is used principally for renewal purposes.



FILAMENT VOLTAGE (AC/DC)	11.0	volts
FILAMENT CURRENT	15.5	amperes
AMPLIFICATION FACTOR	20.5	
DIRECT INTERELECTRODE CAPACITANCES:		
Grid to plate	47	μ f
Grid to filament	25.5	μ f
Plate to filament	4.5	μ f

	Class B Modulator	Class C Telegraphy#	
Maximum CCS Ratings:			
DC PLATE VOLTAGE	3000 <i>max</i>	2500 <i>max</i>	volts
DC GRID VOLTAGE	—	-500 <i>max</i>	volts
DC PLATE CURRENT	1 $\blacksquare$ <i>max</i>	1 <i>max</i>	ampere
DC GRID CURRENT	—	0.2 <i>max</i>	ampere
PLATE INPUT	2250 $\blacksquare$ <i>max</i>	2500 <i>max</i>	watts
PLATE DISSIPATION	750 $\blacksquare$ <i>max</i>	750 <i>max</i>	watts

Key-down conditions per tube without amplitude modulation. Amplitude modulation essentially neg-