

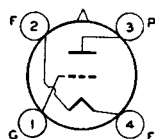
DC GRID-No.3 (SUPPRESSOR-GRID) VOLTAGE.....	200 <i>max</i>	volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE.....	200 <i>max</i>	volts
DC GRID-No.1 (CONTROL-GRID) VOLTAGE.....	-200 <i>max</i>	volts
DC PLATE CURRENT.....	80 <i>max</i>	ma
DC GRID-No.1 CURRENT.....	8 <i>max</i>	ma
PLATE INPUT.....	32 <i>max</i>	watts
GRID-No.3 INPUT.....	5 <i>max</i>	watts
GRID-No.2 INPUT.....	8 <i>max</i>	watts
PLATE DISSIPATION.....	12 <i>max</i>	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode.....	100 <i>max</i>	volts
Heater positive with respect to cathode.....	100 <i>max</i>	volts

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

POWER TRIODE

838

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 30 Mc and with reduced input up to 120 Mc. Requires Jumbo four-contact socket and may be mounted in vertical position with base down, or in horizontal position with pins 1 and 3 in vertical plane. OUTLINE 49, *Outlines* Section. Plate shows no color when tube is operated at maximum CCS ratings. The 838 is used principally for renewal purposes.



FILAMENT VOLTAGE (AC/DC).....	10	volts
FILAMENT CURRENT.....	3.25	amperes
DIRECT INTERELECTRODE CAPACITANCES:		
Grid to plate.....	7.8	μf
Grid to filament.....	6.0	μf
Plate to filament.....	4.0	μf

Maximum CCS Ratings:

	Class B Modulator	Class C Telegraphy#	
DC PLATE VOLTAGE.....	1250 <i>max</i>	1250 <i>max</i>	volts
DC GRID VOLTAGE.....		-400 <i>max</i>	volts
DC PLATE CURRENT.....	175* <i>max</i>	175 <i>max</i>	ma
DC GRID CURRENT.....		70 <i>max</i>	ma
PLATE INPUT.....	220* <i>max</i>	220 <i>max</i>	watts
PLATE DISSIPATION.....	100* <i>max</i>	100 <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.

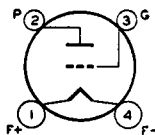
• For maximum-signal conditions.

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

POWER TRIODE

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 6 Mc and with reduced input up to 30 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. Plate shows no color when tube is operated at maximum CCS ratings. The 841 is used principally for renewal purposes.

841



FILAMENT VOLTAGE (AC/DC).....	7.5	volts
FILAMENT CURRENT.....	1.25	amperes
DIRECT INTERELECTRODE CAPACITANCES:		
Grid to plate.....	7.5	μf
Grid to filament.....	4.0	μf
Plate to filament.....	2.6	μf

Maximum CCS Ratings:

DC PLATE VOLTAGE	425	max
DC GRID VOLTAGE	—	
DC PLATE CURRENT	60	max
DC GRID CURRENT	—	
PLATE INPUT	25	max
PLATE DISSIPATION	15	max

Class B Modulator

Class C Telegraphy#

425	max	450	max	volts
—		-200	max	volts
60	max	60	max	ma
—		20	max	ma
25	max	27	max	watts
15	max	15	max	watts

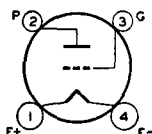
Key-down conditions per tube without amplitude modulation. Amplitude modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 115 per cent of the carrier conditions.

• For maximum-signal conditions.

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

POWER TRIODE

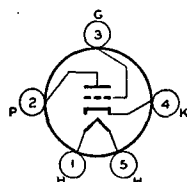
842



μf. Maximum CCS ratings as CLASS A AF POWER AMPLIFIER AND MODULATOR: dc plate volts, 425 max; plate dissipation, 12 max watts. Plate shows no color when tube is operated at maximum CCS ratings. The 842 is used principally for renewal purposes.

POWER TRIODE

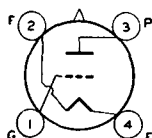
843



2.5 μf. Maximum CCS ratings as RF POWER AMPLIFIER AND OSCILLATOR: dc plate volts, 450 max; dc grid volts, -200 max; dc plate milliamperes, 40 max; dc grid milliamperes, 7.5 max; plate input, 18 max watts; plate dissipation, 15 max watts, peak heater-cathode volts, ± 45 max. Plate shows no color when tube is operated at maximum CCS ratings. The 843 is a DISCONTINUED type listed for reference only.

POWER TRIODE

845



Thoriated-tungsten-filament type used as af power amplifier and modulator. Class AB₁ maximum CCS plate dissipation, 100 watts. Requires Jumbo four-contact socket and may be

mounted in vertical position with base down, or in horizontal position with pins 1 and 3 in vertical plane. OUTLINE 49, *Outlines* Section. Plate shows no color when tube is operated at maximum CCS ratings.

FILAMENT VOLTAGE (AC/DC)	10	volts
FILAMENT CURRENT	3.25	amperes
AMPLIFICATION FACTOR	5.3	
DIRECT INTERELECTRODE CAPACITANCES:		
Grid to plate	12.1	μf
Grid to filament	5.0	μf
Plate to filament	5.0	μf

AF POWER AMPLIFIER AND MODULATOR—Class AB₁

Maximum CCS Ratings:

DC PLATE VOLTAGE	1250	max	volts
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