

active may be used if the positive peak of the audio-frequency envelope does not exceed 115 per cent of the carrier conditions.

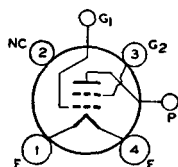
• For maximum-signal conditions.

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

POWER TETRODE

Thoriated-tungsten-filament type used as rf power amplifier and oscillator. May be used with full input up to 30 Mc. For operation at 60 Mc, plate voltage and plate input should be reduced to 75 per cent of maximum ratings; at 120 Mc, to 50 per cent. Requires Small four-contact socket and may be mounted in vertical position only, base down. OUTLINE 55, *Outlines* Section. Plate shows no color when tube is operated at maximum CCS ratings. The 860 is used principally for renewal purposes.

860



FILAMENT VOLTAGE (AC/DC)	10	volts
FILAMENT CURRENT	3.25	amperes
TRANSCONDUCTANCE (For plate current of 50 milliamperes)	1100	μ mhos
AMPLIFICATION FACTOR	200	
DIRECT INTERELECTRODE CAPACITANCES:		
Grid No.1 to plate (With external shielding)	0.08 max	μ f
Grid No.1 to filament and grid No.2	7.75	μ f
Plate to filament and grid No.2	7.5	μ f

RF POWER AMPLIFIER AND OSCILLATOR—Class C Telegraphy# and

RF POWER AMPLIFIER—Class C FM Telephony

Maximum CCS Ratings:

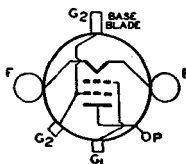
DC PLATE VOLTAGE	3000 max	volts
DC GRID-NO.2 (SCREEN-GRID) VOLTAGE	500 max	volts
DC GRID-NO.1 (CONTROL-GRID) VOLTAGE	-800 max	volts
DC PLATE CURRENT	150 max	ma
DC GRID-NO.1 CURRENT	40 max	ma
PLATE INPUT	300 max	watts
GRID-NO.2 INPUT	10 max	watts
PLATE DISSIPATION	100 max	watts

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.

POWER TETRODE

Thoriated-tungsten-filament type used as rf power amplifier and oscillator. May be used with full input up to 20 Mc. For operation at 30 Mc, plate voltage and plate input should be reduced to 82 per cent of maximum ratings; at 63 Mc, to 53 per cent. Tube may be mounted in vertical position only, filament end up. OUTLINE 63, *Outlines* section. Plate shows an orange-red color when tube is operated at maximum CCS ratings. The 861 is used principally for renewal purposes.

861



FILAMENT VOLTAGE (AC/DC)	11	volts
FILAMENT CURRENT	10	amperes
TRANSCONDUCTANCE (For plate current of 130 milliamperes)	2400	μ mhos
AMPLIFICATION FACTOR	300	
DIRECT INTERELECTRODE CAPACITANCES:		
Grid No.1 to plate (With external shielding)	0.10 max	μ f
Grid No.1 to filament and grid No.2	14	μ f
Plate to filament and grid No.2	11	μ f

RF POWER AMPLIFIER AND OSCILLATOR—Class C Telegraphy# and

RF POWER AMPLIFIER—Class C FM Telephony

Maximum CCS Ratings:

DC PLATE VOLTAGE	3500 max	volts
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DC GRID-No.2 (SCREEN-GRID) VOLTAGE●	750 max	volts
DC GRID-No.1 (CONTROL-GRID) VOLTAGE	-1000 max	volts
DC PLATE CURRENT	350 max	ma
DC GRID-No.1 CURRENT	75 max	ma
PLATE INPUT	1200 max	watts
GRID-No.2 INPUT	35 max	watts
PLATE DISSIPATION	400 max	watts

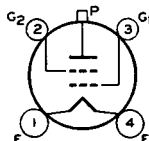
Key-down conditions per tube without amplitude modulation. Amplitude modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 115 per cent of the carrier conditions.

● Grid-No.2 voltage must not exceed 2000 volts under key-up conditions.

POWER TETRODE

Thoriated-tungsten-filament type used as rf power amplifier and oscillator. May be used with full input up to 15 Mc. For operation at 30 Mc, plate voltage and plate input should be reduced to 78 per cent of maximum ratings; at 60 Mc, to 55 per cent. Requires Small four-contact socket and may be mounted in vertical position only, base up or down. *OUTLINE 31, Outlines Section.* Plate shows no color when tube is operated at maximum CCS ratings. The 865 is used principally for renewal purposes.

865



FILAMENT VOLTAGE (AC/DC)	7.5	volts
FILAMENT CURRENT	2.0	amperes
TRANSCONDUCTANCE (For plate current of 18 milliamperes)	750	μmhos
AMPLIFICATION FACTOR (Approx.)	150	
DIRECT INTERELECTRODE CAPACITANCES:		
Grid No.1 to plate (With external shielding)	0.10 max	μf
Grid No.1 to filament and grid No.2	8.5	μf
Plate to filament and grid No.2	8.0	μf

RF POWER AMPLIFIER AND OSCILLATOR—Class C Telegraphy# and

RF POWER AMPLIFIER—Class C FM Telephony

Maximum CCS Ratings:

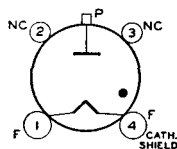
DC PLATE VOLTAGE	750 max	volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE	175 max	volts
DC GRID-No.1 (CONTROL-GRID) VOLTAGE	-200 max	volts
DC PLATE CURRENT	60 max	ma
DC GRID-No.1 CURRENT	15 max	ma
PLATE INPUT	45 max	watts
GRID-No.2 INPUT	3 max	watts
PLATE DISSIPATION	15 max	watts

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.

HALF-WAVE MERCURY- VAPOR RECTIFIER

Coated-filament type used in power supply of transmitting and industrial equipment. Maximum peak inverse anode volts, 10,000; maximum average anode amperes, 0.25. Requires

Small four-contact socket and may be mounted in vertical position only, base down. *OUTLINE 41, Outlines Section.*



866-A

FILAMENT VOLTAGE (AC)°	2.5	volts
FILAMENT CURRENT	5.0	amperes
PEAK TUBE VOLTAGE DROP (Approx.)	15	volts

° Filament voltage must be applied at least 15 seconds before the application of anode voltage.