841

## 841 TRIODE POWER AMPLIFIER **OSCILLATOR**

864 TRIODE **AMPLIFIER** DETECTOR

842 864

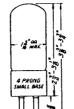
The 841 is a high-mu triode type power amplifier tube having a thoriated tungsten filament and an isolantite base. It is designed for use as a power amplifier or oscillator. FILAMENT RATING Filament Volt. 7.5 Filament Cur. 1.25 DIR. INTERELEC. CAPAC.

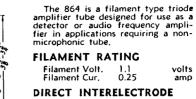


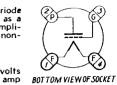
volts

μμf μμf μμf

A-F AMPLIFIER-CL. A-RES. COUPLED







volts

## DIRECT INTERELECTRODE

CAPACII	MINCE2	
Grid to Plate	5.3 2.3	μμf μμf
Output	2.1	μμf

A-F	AMPLIFI	ER—CLASS	A
	MAXIMUM	RATING	

D-C Plate Voltage	135	volts
TYPICAL OPERATION		
D-C Plate Voltage       90         D-C Grid Voltage       -4.5         D-C Plate Current       2.9         Amplification Factor       8.2	135 9.0 3.5 8.2 645	volts volts ma umhos
Transconductance         610           Plate Resistance         13500	12700	ohms
Grid Coupling Resistor, if used, must not exceed 2.0 meg		
· •		
DETECTOR-BIASED TYPE		
D-C Plate Voltage	135	volts
### TYPICAL OPERATION  D-C Plate Voltage	135 —15 ma with	volts volts no signal
DETECTOR—GRID LEAK TYPE		
MAXIMUM RATING D-C Plate Voltage	45	volts
TYPICAL OPERATION		
D-C Plate Voltage Grid Leak Grid Condenser	45 0.25-5 0.0025	volts megohms µf

ZIOR ZIONA	5-53"
	43-43
MED BASE BAYONET	740

MAXIMUM RATINGS D-C Plate Voltage D-C Plate Supply Volt Plate Dissipation	age	1250	volts volts watts
TYPICAL OPERATION			
D-C Plate Supply Voltage	425#	1000#	volts
D-C Grid Voltage	-6	9	volts
D-C Plate Current	0.7	2.2	ma
Amplification Factor	30	30	
Plate Resistance	63000	40000	ohms
Transconductance	450	750	μmhos
Peak A-F Grid Voltage	6	9	volts
Load Resistance	0.25	0.25	megohm
Voltage Output (5% second harmonic)	126	225	volts
A-F POWER AMPLIFIER-CLASS	B-TWC	TUBES	

Grid to Plate Input Output

MAXIMOM RATINGS	WO 100L3	
D-C Plate Voltage	. 60	volts ma watts
TYPICAL OPERATION		
D-C Plate Voltage	425 5 13 120 180 7000 28 3.6	volts volts ma ma volts ohms watts
		•

## R-F POWER AMPLIFIER OR OSCILLATOR—CLASS C MAXIMUM RATINGS

D-C Plate Voltage—Telegraphy . D-C Plate Voltage—Telephony—F D-C Plate Current	Plate Mo	dulation.		450 350 60 20	volts volts ma ma amp
Plate Dissipation Telegraphy				15	watts
Plate Dissipation-Telephony-Pla	te Modu	lation		10	wat.ts
TYPICAL OPERATION	Teles Plate Me	hony dulation	Teleg	raphy	
D-C Plate Voltage	250	350	350	450	volts

Plate Dissipation Lelephony-Plat	e Moa	liation .		10	Walits
TYPICAL OPERATION		Telephony Tele Plate Modulation			
D-C Plate Voltage	250	350	350	450	volts
D-C Grid Voltage	40	47	30	34	volts
D-C Plate Current	50	50	50	5 <b>0</b>	ma
D-C Grid Current	15	15	15	15	ma
Peak R-F Grid Voltage	125	130	115	120	volts
R-F Driving Power	2	2	1.8	1.8	watts
Carrier Power Output	7	11	11	15	watts
A-F Modulating Power	6.3	8.8			watts
Peak Power Output	28	44		_	watts

SVoltage effective at the plate is less than the plate supply voltage by the drop in the load resistor.

## 842 TRIODE POWER AMPLIFIER

The 842 is a low-mu triode type power amplifier tube having a thoriated tungsten filament and an isolantite base. It is designed for use as an audio

frequency power amplifier.		
FILAMENT RATING Filament Voltage	7.5 1.25	volts amp
DIRECT INTERELECTRODE CAPACITANCES Grid to Plate Input Output	7 4 3	μμf μμf μμf
A-F POWER AMPLIFIER—CLASS MAXIMUM RATINGS	A	
D-C Plate Voltage	425 12	volts watts
TYPICAL OPERATION		
D-C Plate Voltage       350         D-C Grid Voltage       -72         D-C Plate Current       34         Peak A-F Grid Voltage       67         Amplification Factor       3	425 100 28 95 3	volts volts ma volts
Transconductance         1250           Plate Resistance         2400           Load Resistance         5000           Power Output (5% second harmonic)         2.1	1200 2500 8000 3.0	µmhos ohms ohms watts
For tube outline and basing view see type 841.		

