

63P

R-F POWER AMPLIFIER

R-F POWER AMPLIFIER						
Filament	Thoriated Tu	nasten				
Voltage	7.5	·goto	a-c o	r d-c volts		
Current	3.1			amp.		
Amplification Factor	10.5			Gp .		
Direct Interelectrode		s:				
Grid to Plate	2.6	٠.		μμf		
Grid to Filament	2.2			μμ f		
Plate to Filament	0.6			μμf		
Maximum Overall Length				6-7/8"		
Maximum Diameter	•			2-11/16"		
Bulb				S-21		
Base		M	adium 4-P	in. Bayonet		
RCA Socket (Type UR-54	42A)	1914		ock No.9919		
		at middle				
Cooling - Forced air from bulb is recomme				bove 60 Mc.		
	atings Are A					
MAXIMUM RATINGS		_				
R-F POWER	AMPLIFIER - C	lass B	elephony			
Carrier conditions per tub	e for use with	4 84x. 80		•		
D-C Plate Voltage			1250 m			
D-C Plate Current			100 m			
Plate Input			75 m	ax. watts		
Plate Dissipation			50 m	ax. watts		
Typical Operation:						
D-C Plate Voltage	750	1000	1250	volts		
D-C Grid Voltage #	-70	-90	-115	volts		
Peak R-F Grid Voltag	ge 90	100	115	volts		
D-C Plate Current	50	50	50	ma.		
D-C Grid Current **	1.0	0.5	0 ag	prox. ma.		
Driving Power O **	3.3	3.1		prox. watts		
Power Output	11	16		prox. watts		
PLATE-MODILLATED R-F	F POWER AMPLI	FIFR - (Class C To	elephony		
PLATE-MODULATED R-F POWER AMPLIFIER - Class C Telephony Corrier conditions per tube for use with a max. modulation factor of 1.0						
	e jor use with	a wax. mo	•	•		
D-C Plate Voltage			1000 m			
D-C Grid Voltage			-400 mi			
D-C Plate Current			100 m			
D-C Grid Current			20 m			
Plate Input			100 m			
Plate Dissipation			35 ma	ax. watts		
Typical Operation:				_		
D-C Plate Voltage		750	1000	volts		
D-C Grid Voltage *		[14500	17700	ohms		
		l -290	-310	voits		
Peak R-F Grid Voltag	ge	415	435	volts		
D-C Plate Current		90	90	ma.		
D-C Grid Current		_20	17.5 ap	prox. ma.		
Driving Power **		7.5	6.5 <u>ap</u>	prox. watts		
Power Output		42		prox. watts		
* Obtained by grid—leak resistor or by partial self—bias methods. • At crest of a—f cycle with modulation factor of 1.0.						
**, #: See next page.				es a change.		
Dec 4 4042						





R-F POWER AMPLIFIER

(continued from preceding page)

R-F POWER AMPLIFIER & OSCILLATOR - Class C Telegraphy

Eaundon-	conditions	 tu he	without	modulation##

D-C Plate Voltage	1250 max.	volts
D-C Grid Voltage	-400 max.	volts
D-C Plate Current	100 max.	ma.
D-C Grid Current	20 max.	ma.
Plate Input	125 max.	watts
Plate Dissination	50 max.	watts

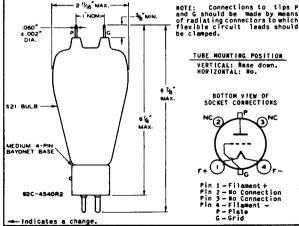
Τv

ypical Operation:			00 maxi	
	750	4000	4050	
D-C Plate Voltage	750	1000	1250	volts
	{−175	-200	-225	volts
D-C Grid Voltage †	₹8750	11400	15000	ohms
	l 1600	1850	2150	ohms
Peak R-F Grid Voltage	300	325	350	volts
D-C Plate Current	90	90	90	ma.
D-C Grid Current **	20	17.5	15 approx	k. ma.
Driving Power **	5.5	5.0	4.5 approx	. watts
Power Output	42	58	75 approx	. watts

- For a-c filament supply. If d.c. is used, the stated voltage values should be decreased by approx. one-half of the rated filament voltage. Obtained from fixed supply, by grid resistor (8750, 11800, 15000), or cathode resistor (1600, 1850, 2150). Modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 1158 of the carrier conditions.

 Subject to wide variations as explained on sheet TRANS. TUBE RATINGS.

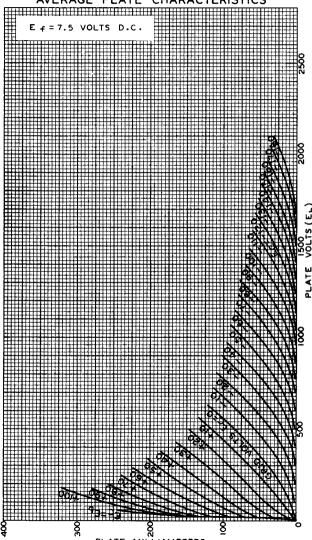
Data on operating frequencies for the 834 are given on the sheet TRANS. TUBE RATINGS vs FREQUENCY. See also "Cooling" under this type.



Dec. 1, 1942



AVERAGE PLATE CHARACTERISTICS







AVERAGE CHARACTERISTICS

