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OSCILLATOR, R-F POWER AMPLIFIER

(WATER COOLED)

	(MATER COOL						
Filament Voltage Current	Tungsten 11 51		a-c	or d-ç	volts amp.		
Amplification Factor	40				ump.		
'		,					
Direct Interelectrode C		(approx.):				
Grid to Plate Grid to Filament	9 6. 5				μμf		
Plate to Filament	1.5				μμf ····•		
	1.5				μμf C 4 (C II		
Maximum Overall Length					9-1/2"		
Maximum Radius Base				-	3_3/8"		
Water Jacket				9	None pecial		
					peciai		
MAXIMUM RATINGS a							
This tube can often be							
as explained on sheet			-		book.		
R-F POWER AM							
Carrier conditions per tube	for use with	a max. mod	ulat i	on fact.	of 1.0		
D-C Plate Voltage			750 0	max.	volts		
D-C Plate Current				max.	amp.		
R-F Grid Current				max.	amp.		
Plate Input		:		max.	kw		
Plate Dissipation			2.5	max.	kw		
Typical Operation:							
Filament Voltage			11	dc	volts		
D-C Plate Voltage			7000		volts		
D-C Grid Voltage	0		1275	approx	.voits		
Peak R-F Grid Voltage D-C Plate Current	•		0.45	approx	amp.		
Driving Power ** 0				approx	watte		
Power Output			1	approx	. kw		
O At crest of a-f cycle wit	h modulation 1	actor of I		шрр. ол.	<u></u>		
PLATE-MODULATED R-F				Teleph	ony		
Carrier conditions per tube							
D-C Plate Voltage				max.	volts		
D-C Grid Voltage				max.	volts		
D-C Plate Current				max.	amp.		
D-C Grid Current				max.	amp.		
R-F Grid Current				max.	amp.		
Plate Input				max.	kw		
Plate Dissipation			1.66	max.	kw		
Typical Operation:							
Filament Voltage	11	11	11	a-c	volts		
D-C Plate Voltage	4 000		6000		volts		
D-C Grid Voltage	-850	-9 00	-950	approx	.volts		
** See next page. (continued on next page)							



0SCILLATOR, R-F POWER AMPLIFIER

(continued from preceding page)

(sometimes that broading helps,									
Peak R-F Grid Voltage	1600	1700	1950 approx.volts						
D-C Plate Current	0.3	0.4	0.5 amp.						
D-C Grid Current **	0.080	0.100	0.125 approx.amp.						
Oriving Power**	12 5	17 5	200 approx.watts						
Power Öutput	0.9	1.5	2.25 approx.kw						

R-F POWER AMPLIFIER & OSCILLATOR - Class C Telegraphy

Key-down conditions per tube without modulation #

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ĺ	D-C Plate Voltage				max.	volts
ł	D-C Grid Voltage			-1000		volts
Į	D-C Plate Current				max.	amp.
1	D-C Grid Current			0.15		amp.
1	R-F Grid Current				max.	amp.
	Plate Input				max.	kw
ı	Plate Dissipation			2.5	max.	kw
	Typical Operation:					
	Filament Voltage	11	11	11	a-c	volts
	D-C Plate Voltage	5000	6000	7000		volts
	D-C Grid Voltage	-800	-850	-900	approx	volts
ł	Peak R-F Grid Voltage	1850	2040		approx	
	D-C Plate Current	0.60	0.75	0.90		amp.
	D-C Grid Current **	0.11	0.125	0.14	approx	атр.
	Driving Power**	175	235	300	approx.	watts
	Power Output	2	3	4.25	approx	. kw

^{*} Modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed-115% of the carrier conditions.

^{**} Subject to wide variations as explained on sheet TRANS, TUBE RATINGS,

For use of the 846 at the higher frequencies, refer to sheet TRANS. TUBE RATINGS vs Frequency.