

DETECTOR, AMPLIFIER, OSCILLATOR
ACORN TYPE

**Robecially for wavelengths between 0.5 meter and 5 meters

Especially for wave	lengths between 0.5	meter and 5 meters			
	ed Unipotential C				
Voltage	6.3	a-c or d-c volt	S		
Current	0.15	amp.			
Direct Interelectrode	Capacitances:				
Grid to Plate	1.4	дці			
Grid to Cathode	1.0	µµf	1		
Plate to Cathode	0.6	µµf			
Overall Length		1-7/32" ± 5/32	"		
Overall Diameter		1-3/32" ± 1/16	,"		
Bulbi	See Outline in				
Base }	GENERAL SECTION	Small Radial 5-Pi	n		
Pin 1-Heater	@ @	Pin 4 - Heater	.		
Pin 2 - Plate		Pin 5 - Cathod	e		
Pin 3-Grid	(≟-)				
RCA Socket		Stock No.992	5		
Mounting Position	0 6 0	Any			
	hort Part of Bulb: Bot	tom			
	BOTTOM VIEW (5BC				
Maximum Ratings Are Design-Center Values					
	A-F AMPLIFIER				
D-C Plate Voltage		250 max. volt	s		
Plate Dissipation		1.6 max. watt	s		
D-C Heater-Cathode Pot	ent ra 1	80 max. volt	s		
Typical Operation and		- Class A. Amplifier:			
D-C Plate Voltage	90 13		s		
D-C Grid Voltage*	-2.5 -3.7	5 -5 -7 volt	s		
Amplification Factor		5 25 25			
Plate Resistance	14700 1320	0 12500 11400 ohms	;		
Transconductance	1700 190	0 2000 2200 µmho	s		
D-C Plate Current	2.5 3.	5 4.5 6.3 ma.	1		
Load Resistance		20000 - ohms	;		
Second Harmonic Dist		5 - %	1		
Power Output		135 – mw	- [
Typical Operation with	Resistance-Coup	ling:	-		
Plate-Supply Voltage	,0	180 volt	s		
D-C Grid Voltage*		-3.5 volt	s		
Load Resistance		250000 ohms	; 1		
Plate Current		0.42 ma.			
Second Harmonic Dist	ortion	5 %			
Voltage Output		45 RMS volt	s		
Voltage Gain		20 approx.			
R-F POWER AMPL	IFIER & OSCILLAT	OR - Class C			
	e Modulated or C				
D-C Plate Voltage		180 max. volt	s		
D-C Plate Current		8 max. ma.			
D-C Grid Current		2 max. ma.			
D-C Heater-Cathode Pot	ential	80 max. volt	s		
Typical Operation:					
D-C Plate Voltage		180 volt	s		
D-C Grid Voltage		-35 approx. volt	s		
D-C Plate Current		7 ma.			
1					
*, *, See next page.		Indicates a change	٠.		



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(continued from preceding page)
D-C Grid Current
Power Output**

1.5 approx.ma.
0.5 approx.watt

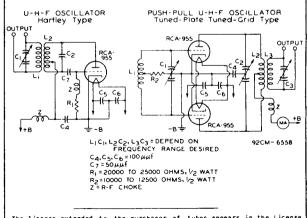
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	DETECTOR		
Typical Operation:	Biased	Grid-Leak	
Plate-Supply Voltage	je ^o 180	45	volts
Grid Voltage	-7 approx.	Grid Return to Cathode	volts
Load Resistance	0.25	-	megohm
Plate Current *	djusted to 0.2 ma. approx. with no input signal.	_	ma.
Cathode Resistor	50000 approx.	_	ohms
Grid Leak	-		megohms
Grid Condenser	- 1	0.00025	μf

With no external shield.

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- * Under maximum rated conditions, the resistance in the grid circuit should not exceed 0.1 megohn with fixed bias, or 0.5 megohn with cathode bias.
 This is a plate-supply voltage value. The voltage effective at plate
- o This is a plate-supply voltage value. The voltage effective at plate will be plate-supply voltage minus the voltage drop in load caused by plate current.
- ** At 5 meters. Only moderate reduction in this value will be found for wavelengths as low as 1 meter. Below 1 meter, the power output decreases as the wavelength is decreased.

R-F grounding by means of condensers placed close to the tube pins is required if the full capabilities of the 955 for ultrahigh-frequency uses are to be obtained.



The license extended to the purchaser of tubes appears in the License Motice accompanying them. Information contained herein is furnished without assuming any obligations.

JUNE 30, 1944

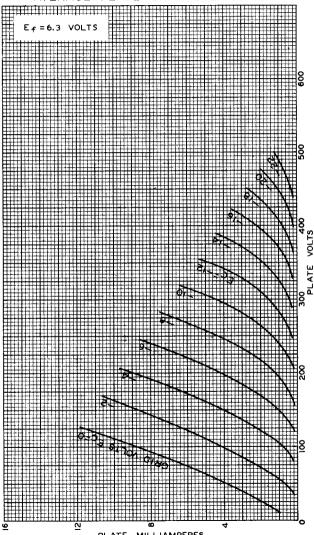
DATA

DATA



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AVERAGE PLATE CHARACTERISTICS







CHARACTERISTICS CURVES

