

## DETECTOR, AMPLIFIER, OSCILLATOR ACORN TYPE Especially for wavelengths between 0.5 meter and 5 meters

Especially for wav	elengths between 0.5 m	eter and 5 meters				
	ed Unipotential Ca					
Voltage	6.3	a-c or d-c	volts			
Current	0.15		amp.			
Direct Interelectrode	Capacitances:					
Grid to Plate	1.4		μμf			
Grid to Cathode	1.0		μμf			
Plate to Cathode	0.6		μμf			
Overall Length		1-7/32" ±	5/32"			
Overall Diameter		1-3/32" ±	1/16"			
Bulb }	See Outline in	<b>\</b>	T-4½			
Base S	GENERAL SECTION	[Small Radial				
Pin 1-Heater	Q3	Pin 4 – He				
Pin 2-Plate Pin 3-Grid	$\langle \mathcal{F} \rangle$	Pin 5 - Ca	thode			
RCA Socket		0	20.05			
		Stock No				
Mounting Position	⊕ (5) ⊕		Any			
S	Short Part of Bulb: Botto BOTTOM VIEW (5BC)	OM	1			
Manimum Bot						
maximum Rat	Maximum Ratings Are Design-Center Values  A-F AMPLIFIER					
D-C Plate Voltage	A I AMILITILITY	250 max.	vo1ts			
Plate Dissipation			watts			
D-C Heater-Cathode Pot		80 max.	volts -			
Typical Operation and		Class A. Amblifi	er:			
D-C Plate Voltage	90 135	180 250	volts			
D-C Grid Voltage*	-2.5 -3.75	<b>-</b> 5 <b>-</b> 7	volts			
Amplification Factor		25 <b>2</b> 5				
Plate Resistance	14700 13200		ohms			
Transconductance	1700 1900		µmhos			
D-C Plate Current	2.5 3.5		ma.			
Load Resistance		_	ohms			
Second Harmonic Dist	٠,		%			
Power Output		135 -	mw			
Typical Operation with Plate-Supply Voltage	n kesistance-Coupli O					
D-C Grid Voltage*	5		volts			
Load Resistance		050000	volts			
Plate Current		0 40	ohms ma.			
Second Harmonic Dist	tortion	-	ma. %			
Voltage Output			volts			
Voltage Gain		20 approx.	VU1 LS			
-	IFIER & OSCILLATOR					
R-F POWER AMPLIFIER & OSCILLATOR - Class C  Plate Modulated or C.W.						
D-C Plate Voltage	e moducuted of C. I		volts			
D-C Plate Current		^	ma.			
D-C Grid Current		_	ma.			
D-C Heater-Cathode Pot	ential		volts -			
Typical Operation:	· · · · · · · · · · · · · · · · · · ·	OU MAKE				
D-C Plate Voltage		180	volts			
D-C Grid Voltage			volts			
D-C Plate Current			ma.			
• * 0. see next			1			
• *, 0: See next page.   → Indicates a change.						



## DETECTOR, AMPLIFIER, OSCILLATOR

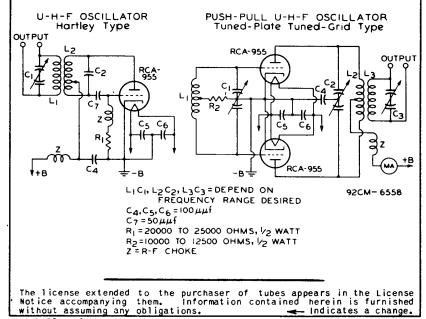
(continued from preceding page)

D—C Grid Current
1.5 approx.ma.
Power Output\*\*
0.5 approx.watt

<b>,</b>	DETECTOR		
Typical Operation:	Biased	Grid-Leak	
Plate-Supply Voltage O	180	45	volts
Grid Voltage	-7 approx.	Grid Return to Cathode	volts
Load Resistance	0.25	_	megohm
Plate Current Adjust	ted to 0.2 ma. approx. th no input signal.	_	ma.
Cathode Resistor	50000 approx.	_	ohms
Grid Leak	-		megohms
Grid Condenser	_	0.00025	μf

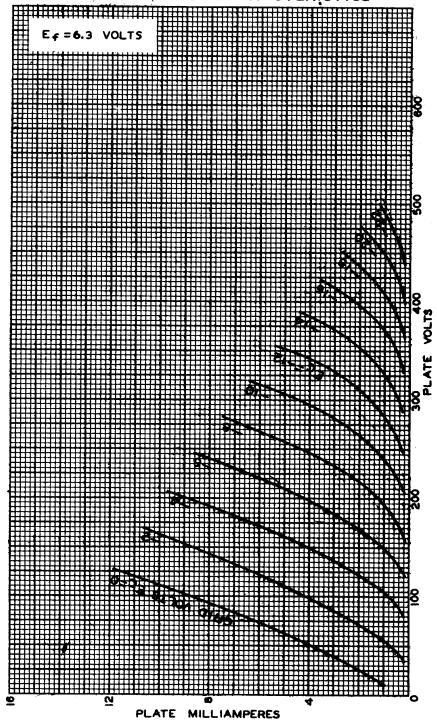
- With no external shield.
- \* Under maximum rated conditions, the resistance in the grid circuit should not exceed 0.1 megohm with fixed bias, or 0.5 megohm with cathode bias.
- o This is a plate-supply voltage value. The voltage effective at plate will be plate-supply voltage minus the voltage drop 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.

 $\it R-F$  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.





## AVERAGE PLATE CHARACTERISTICS



MAY 7, 1941

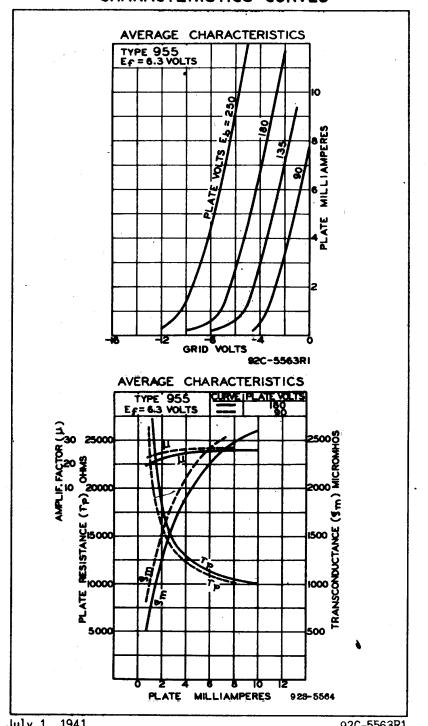
RCA RADIOTRON DIVISION RCA MANUFACTURING COMPANY, INC.

92C-556IRI





## GHARACTERISTICS CURVES



July 1, 1941

RCA RADIOTRON DIVISION RCA MANUFACTURING COMPANY, INC.

92C-5563R1 92S-5564