

DETECTOR, AMPLIFIER, OSCILLATOR ACORN TYPE Fotocially for paralentitle between 0.5 Tester and 5 Testers

Heater Voltage 6.3 a—c or d—c volts Current 0.15 amp. Direct Interelectrode Capacitances: Grid to Plate 1.4 puf Grid to Cathode 1.0 plate to Cathode 0.6 Overall Length 1—7/32" ± 5/32" 1—3/32" ± 1/16" plate to Cathode 0.6 Overall Diameter 1.4 Second Read Second Pin 4—Heater Pin 2—Plate Pin 3—Grid RCA Socket Mounting Position Short Part of Bulb: Bottom BOTTOM VIEW 15BC) Maximum Ratings Are Design—Center Values A—F AMPLIFIER 250 max. volts Plate Dissipation 1.6 max. watts No.9925 Mounting Position 1.6 max. volts Plate Dissipation 1.6 max. volts Plate Outlage 90 135 180 250 volts D—C Grid Voltage 90 135 180 250 volts D—C Plate Current 2.5 2.5 25 25 25 25 25 25 25 25 25 25 25 25 25	Especially for wavelengt				5 meters	3
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Short Part of Bulb: Bottom BOTTOM VIEW (5BC) **Maximum Ratings Are Design-Center Values** A=F AMPLIFIER 250 max. volts	RCA Socket		/		Stock	No.9925
Short Part of Bulb: Bottom BOTTOM VIEW (5BC) **Maximum Ratings Are Design-Center Values** D-C Plate Voltage Plate Dissipation 1.6 max. watts D-C Heater-Cathode Potential 80 max. volts Typical Operation and Characteristics— Class A1 Amplifier: D-C Plate Voltage 90 135 180 250 volts D-C Grid Voltage* -2.5 -3.75 -5 -7 volts Amplification Factor 25 25 25 25 25 Plate Resistance 14700 13200 12500 11400 ohms Transconductance 1700 1900 2000 2200 µmhos D-C Plate Current 2.5 3.5 4.5 6.3 ma. Load Resistance - 20000 - ohms Second Harmonic Dist 5 - % Power Output - 135 - mw **Typical Operation with Resistance-Coupling: Plate-Supply Voltage 180 volts D-C Grid Voltage* -3.5 volts Load Resistance 250000 ohms Second Harmonic Distortion 5 % voltage Gain 20 approx. **PEPOWER AMPLIFIER & OSCILLATOR - Class C Plate Modulated or C. W. D-C Plate Current 2 max. ma. D-C Grid Current 2 max. ma. D-C Grid Current 2 max. ma. D-C Plate Voltage 180 wolts Typical Operation: D-C Plate Voltage 180 wolts D-C Plate Voltage 180 max. volts D-C Plate Voltage 180 max. volts Typical Operation: D-C Plate Voltage 180 max. volts D-C Plate Vo	Mounting Position	0 3 4)			Any
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Power Output — — — — — — — — — — — — — — — — — — —	Load Resistance	_	-	20000	-	ohms
Typical Operation with Resistance-Coupling: Plate-Supply Voltage D-C Grid Voltage* Load Resistance 250000 Plate Current Second Harmonic Distortion Voltage Output Voltage Gain Plate Modulated or C. W. D-C Plate Voltage D-C Plate Current D-C Grid Current D-C Heater-Cathode Potential D-C Plate Voltage D-C Heater-Cathode Potential D-C Grid Current D-C Plate Voltage D-C Plate Current Typical Operation: D-C Plate Voltage D-C Plate Current Typical Operation: Typical Operation: D-C Plate Current Typical Operation: Typical Operation: Typical Operation: D-C Plate Current Typical Operation: Typical Operati	Second Harmonic Dist.	_	_	5	-	%
Plate-Supply Voltage D-C Grid Voltage* Load Resistance Plate Current Second Harmonic Distortion Voltage Output Voltage Gain Plate Modulated or C.W. D-C Plate Voltage D-C Grid Current D-C Grid Current D-C Heater-Cathode Potential Typical Operation: D-C Plate Voltage D-C Plate Current D-C Grid Voltage D-C Plate Current D-C Plate Voltage D-C Side Voltage D-C Plate Current Typical Operation: D-C Plate Current Typical Side Voltage D-C Plate Current Typical Voltage D-C Side Voltage D-C Plate Current Typical Voltage D-C Plate Current Typical Voltage D-C Side Voltage D-C Plate Current Typical Side Voltage D-C Plate Current Typical Side Voltage D-C Plate Current Typical Voltage D-C Side Voltage D-C Plate Current Typical Voltage D-C Plate Current Typical Voltage D-C Plate Current Typical Side Voltage D-C Plate Current Typical Side Voltage D-C Plate Current Typical Side Voltage D-C Plate Current Typical Voltage D-C Plate Current Typical Voltage D-C Plate Current Typical Side Voltage Typical Side	Power Output	-	_	135	_	mw
Plate-Supply Voltage D-C Grid Voltage* Load Resistance Plate Current Second Harmonic Distortion Voltage Output Voltage Gain Plate Modulated or C.W. D-C Plate Voltage D-C Grid Current D-C Grid Current D-C Heater-Cathode Potential Typical Operation: D-C Plate Voltage D-C Plate Current D-C Grid Voltage D-C Plate Current D-C Plate Voltage D-C Side Voltage D-C Plate Current Typical Operation: D-C Plate Current Typical Side Voltage D-C Plate Current Typical Voltage D-C Side Voltage D-C Plate Current Typical Voltage D-C Plate Current Typical Voltage D-C Side Voltage D-C Plate Current Typical Side Voltage D-C Plate Current Typical Side Voltage D-C Plate Current Typical Voltage D-C Side Voltage D-C Plate Current Typical Voltage D-C Plate Current Typical Voltage D-C Plate Current Typical Side Voltage D-C Plate Current Typical Side Voltage D-C Plate Current Typical Side Voltage D-C Plate Current Typical Voltage D-C Plate Current Typical Voltage D-C Plate Current Typical Side Voltage Typical Side	Typical Operation with Res	istance	-Coupli	ng:		
Load Resistance 250000 ohms Plate Current 0.42 ma. Second Harmonic Distortion 5 % Voltage Output 45 RMS volts Voltage Gain 20 approx. R-F POWER AMPLIFIER & OSCILLATOR - Class C Plate Modulated or C.W. D-C Plate Voltage 180 max. volts D-C Grid Current 8 max. ma. D-C Grid Current 2 max. ma. D-C Heater-Cathode Potential 80 max. volts Typical Operation: D-C Plate Voltage 180 volts D-C Plate Voltage 180 volts D-C Grid Voltage -35 approx. volts D-C Plate Current 7 ma. • *, O: See next page. Indicates a change.	Plate-Supply Voltage ^o			180		
Plate Current Second Harmonic Distortion Voltage Output Voltage Gain R-F POWER AMPLIFIER & OSCILLATOR - Class C Plate Modulated or C.W. D-C Plate Voltage D-C Plate Current B max. D-C Grid Current CHeater-Cathode Potential D-C Plate Voltage D-C Plate Current Typical Operation: D-C Plate Voltage D-C Plate Current Typical See next page. Indicates a change.						
Second Harmonic Distortion Voltage Output Voltage Gain R—F POWER AMPLIFIER & OSCILLATOR — Class C Plate Modulated or C.W. D—C Plate Voltage D—C Plate Current D—C Grid Current D—C Heater—Cathode Potential Typical Operation: D—C Plate Voltage D—C Plate Current Typical Operation: D—C Plate Voltage D—C Plate Current Typical See next page. 1ndicates a change.	Load Resistance					ohms
Voltage Output Voltage Gain R-F POWER AMPLIFIER & OSCILLATOR - Class C Plate Modulated or C.W. D-C Plate Voltage D-C Plate Current B max. ma. D-C Grid Current C max. ma. D-C Heater-Cathode Potential B max. volts Typical Operation: D-C Plate Voltage D-C Grid Voltage D-C Grid Voltage D-C Plate Current Typical Operation: D-C Plate Voltage D-C Plate Current Typical See next page. Indicates a change.						
Voltage Gain R-F POWER AMPLIFIER & OSCILLATOR - Class C Plate Modulated or C.W. D-C Plate Voltage D-C Plate Current B max. ma. D-C Grid Current C max. ma. D-C Heater-Cathode Potential Typical Operation: D-C Plate Voltage D-C Grid Voltage D-C Grid Voltage D-C Plate Current Typical Operation: D-C Plate Voltage D-C Plate Current Typical See next page. Indicates a change.	i	on				%
R-F POWER AMPLIFIER & OSCILLATOR - Class C Plate Modulated or C.W. D-C Plate Voltage D-C Plate Current B max. ma. D-C Grid Current C max. ma. D-C Heater-Cathode Potential Typical Operation: D-C Plate Voltage D-C Grid Voltage D-C Grid Voltage D-C Plate Current Typical See next page. Indicates a change.	Voltage Output					
Plate Modulated or C.W. D-C Plate Voltage 180 max. volts D-C Plate Current 8 max. ma. D-C Grid Current 2 max. ma. D-C Heater-Cathode Potential 80 max. volts Typical Operation: D-C Plate Voltage 180 volts D-C Grid Voltage -35 approx. volts D-C Plate Current 7 ma. • , *, 0: See next page. Indicates a change.	Voltage Gain			20	approx.	
Plate Modulated or C.W. D-C Plate Voltage 180 max. volts D-C Plate Current 8 max. ma. D-C Grid Current 2 max. ma. D-C Heater-Cathode Potential 80 max. volts Typical Operation: D-C Plate Voltage 180 volts D-C Grid Voltage -35 approx. volts D-C Plate Current 7 ma. • , *, 0: See next page. Indicates a change.	R-F POWER AMPLIFIER	R & OSC	ILLATOR	7 - Clas	ss C	
D-C Plate Current D-C Grid Current D-C Heater-Cathode Potential Typical Operation: D-C Plate Voltage D-C Grid Voltage D-C Plate Current 180 volts -35 approx. volts 7 ma. •, *, 0: See next page. Indicates a change.	Plate Mod	dulated	or C. k	Ÿ.		
D-C Grid Current D-C Heater-Cathode Potential Typical Operation: D-C Plate Voltage D-C Grid Voltage D-C Plate Current *, *, * See next page. 2 max. ma. 80 max. volts 180 volts -35 approx. volts 7 ma.						vo1ts
D-C Heater-Cathode Potential 80 max. volts Typical Operation: D-C Plate Voltage 180 volts D-C Grid Voltage -35 approx. volts D-C Plate Current 7 ma. • , *, 0: See next page. Indicates a change.	D-C Plate Current					ma.
Typical Operation: D-C Plate Voltage D-C Grid Voltage D-C Plate Current , *, 0: See next page. 180 volts -35 approx. volts 7 ma. Indicates a change.						
D-C Plate Voltage D-C Grid Voltage D-C Plate Current , *, 0: See next page. 180 volts -35 approx. volts ma. Indicates a change.	D-C Heater-Cathode Potentia	al		80	max.	volts
D-C Grid Voltage -35 approx. volts D-C Plate Current 7 ma. •, *, 0: See next page. Indicates a change.						
D-C Plate Current 7 ma. •, *, 0: See next page. Indicates a change.						
*, 0: See next page. Indicates a change.				-3 5	approx.	volts
, i see here page.	D-C Plate Current			7		ma.
, i see here page.	• * 0. See next name				dicatas	
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DETECTOR, AMPLIFIER, OSCILLATOR

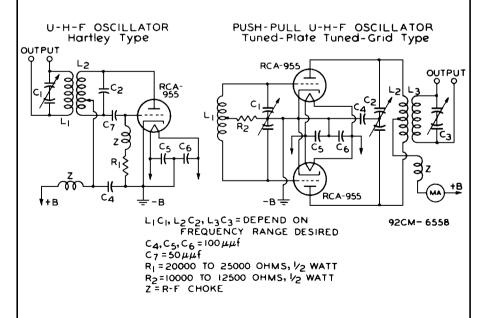
(continue	d from preceding pag	;e)	
D—C Grid Current	1.5 approx.ma.		
Power Output**	0.5 approx.watt		
	DETECTOR		
Typical Operation:	Biased	Grid-Leak	
Plate-Supply Voltage O	180	45	volts
Grid Voltage	-7 approx.	Grid Return to Cathode	volts
Load Resistance	0.25	_	megohm
Plate Current Adjuster with	d to 0.2 ma. approx. no input signal.	_	ma.
Cathode Resistor	50000 approx.	_	ohms
Grid Leak	_	1 to 5	megohms
Grid Condenser	-	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 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.

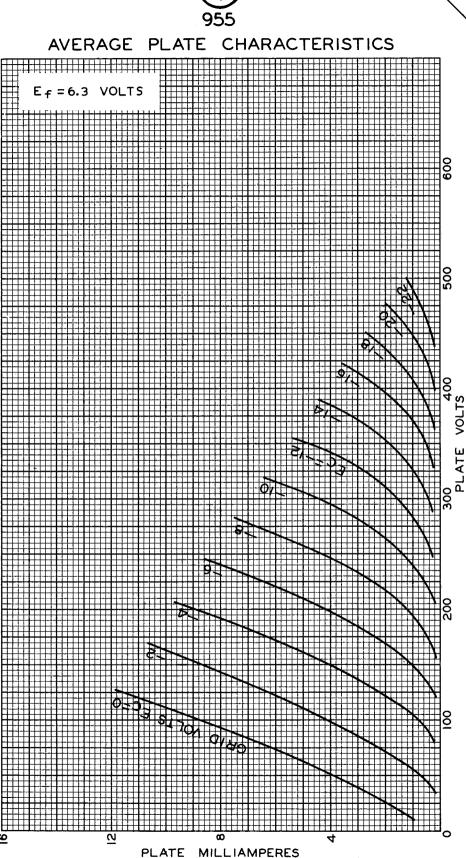
R-F grounding by means of condensers placed close to the tube pins is required if the full capabilities of the 955 for ultrahigh-frequency uses are to be obtained.

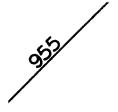


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