



45

45

POWER AMPLIFIER

Filament	Coated		
Voltage	2.5		a-c or d-c volts
Current	1.5		amp.
Direct Interelectrode Capacitances:			
Grid to Plate	7		μf
Grid to Filament	4		μf
Plate to Filament	3		μf
Maximum Overall Length			4-11/16"
Maximum diameter			1-13/16"
Bulb			ST-14
Base			Medium 4-Pin
Pin 1 - Filament			Pin 3 - Grid
Pin 2 - Plate			Pin 4 - Filament
Mounting Position			vertical, Base Down



BOTTOM VIEW

CLASS A AMPLIFIER

Operating Conditions and Characteristics:

Filament	2.5	2.5	2.5	a-c volts
Plate	180	250	275 max.	volts
Grid	-31.5	-50	-56	volts
Amp. Fact.	3.5	3.5	3.5	
Plate Res.	1650	1610	1700	ohms
Transcond.	2125	2175	2050	μmhos
Plate Cur.	31	34	36	ma.
Load Res.	2700	3900	4600	ohms
U.P.O.	825	1600	2000	mw.

* Cathode-bias is advisable in all cases; required if grid-coupling resistor (max. value 1.0 megohm) is used.

CLASS AB₂ AMPLIFIER

Values are for 2 tubes

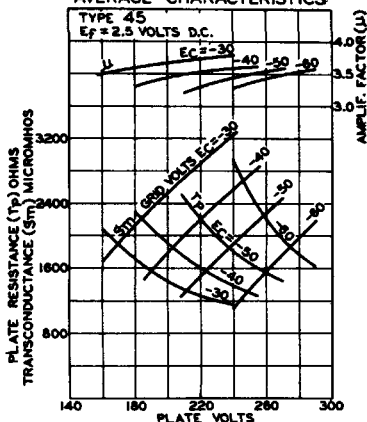
Typical operation:

	Fixed Bias	Cathode Bias	
Filament	2.5	2.5	a-c volts
Plate	275	275	max. volts
Grid	-68	-	volts
Cathode Resistor	-	775	ohms
Average Driving Power (grid to grid)	656	460	mw.
Zero-Sig. Plate Current	28	36	ma.
Max.-Sig. Plate Current	138	90	ma.
Load Resistance (per tube)	800	1265	ohms
Effective Load Res. (plate to plate)	3200	5060	ohms
Total Harmonic Distortion	5	5	%
Power Output	18	12	watts

* Grid volts measured from mid-point of a-c operated filament.

◇ Horizontal operation permitted in plane of filament is vertical.

AVERAGE CHARACTERISTICS



← Indicates
a change.

92C-565R2

APRIL 20, 1938

RCA RADOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

DATA



AVERAGE PLATE CHARACTERISTICS

