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# POWER AMPLIFIER

Filament	Coated		
Voltage	2.5	a-c or d-c volts	
Current	1.5	amp.	
Direct Interelectrode Capacitances:			
Grid to Plate		7	$\mu\text{f}$
Grid to Filament		4	$\mu\text{f}$
Plate to Filament		3	$\mu\text{f}$
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	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 $\mu\text{mhos}$
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.

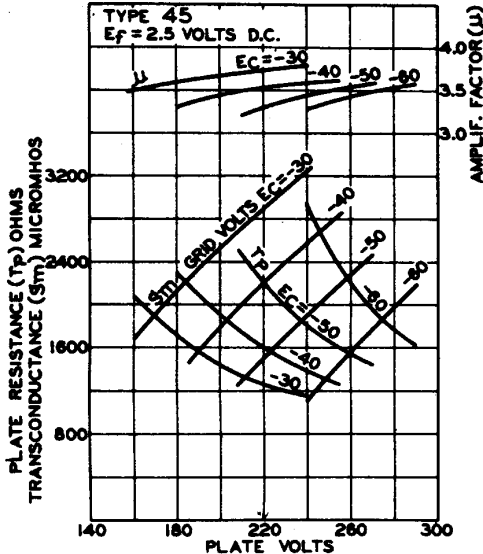
## CLASS AB<sub>2</sub> AMPLIFIER

Values are for 2 tubes

Typical Operation:		Fixed Bias	Cathode Bias	
Filament	2.5	2.5	2.5	a-c volts
Plate	275	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 if plane of filament is vertical.

## AVERAGE CHARACTERISTICS



← Indicates a change.

92C-565R2

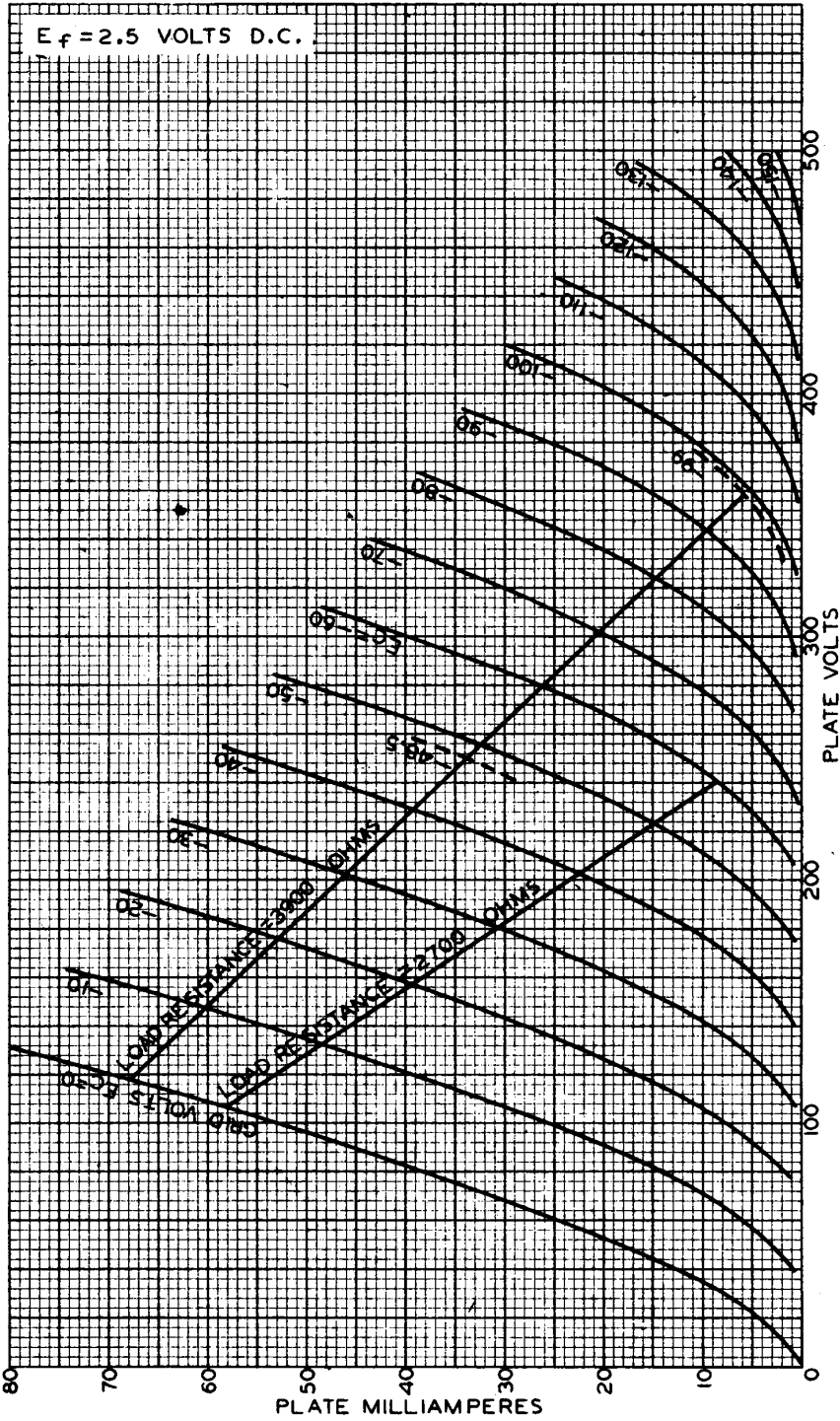
APRIL 20, 1938

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DATA



### AVERAGE PLATE CHARACTERISTICS



NOV. 17, 1932

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