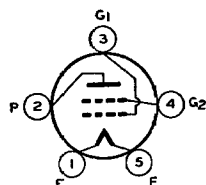
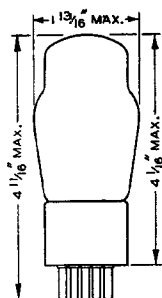


# RCA-49

## DUAL-GRID POWER AMPLIFIER



The 49 is a double-grid power-amplifier tube designed for use in battery-operated receivers employing 2-volt tubes. In such service, it may be used either as a Class B output tube or, by a change in socket connections, as a Class A driver tube.

### CHARACTERISTICS

FILAMENT VOLTAGE (D. C.).....	2.0	Volts
FILAMENT CURRENT .....	0.12	Ampere
BULB .....		ST-14
BASE .....		Medium 5-Pin

#### As Class B Power Amplifier

(Grids No. 1 and No. 2 connected together at socket)

PLATE VOLTAGE .....	180 max.	Volts
PEAK PLATE CURRENT.....	50 max.	Milliamperes
TYPICAL OPERATION (2 tubes)		

*Values are for two tubes.*

Plate Voltage .....	135	180	Volts
Grid Voltage .....	0	0	Volts
Zero-Signal Plate Current.....	2.6	4	Milliamperes
Effective Load Resistance (Plate-to-plate)..	8000	12000	Ohms
Power Output Approximate.....	2.3	3.5	Watts

#### As Driver—Class A<sub>1</sub> Amplifier

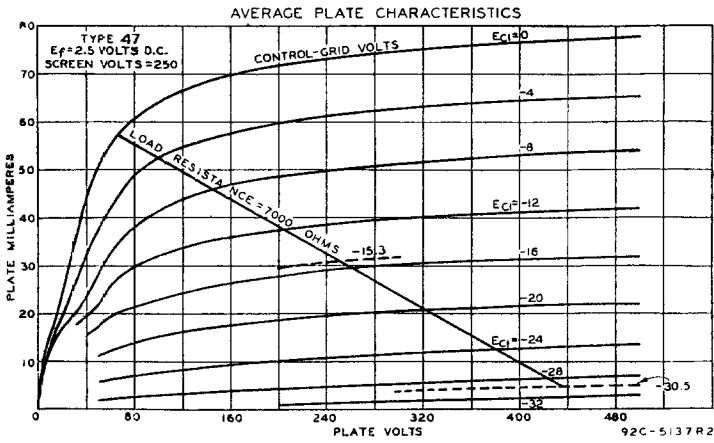
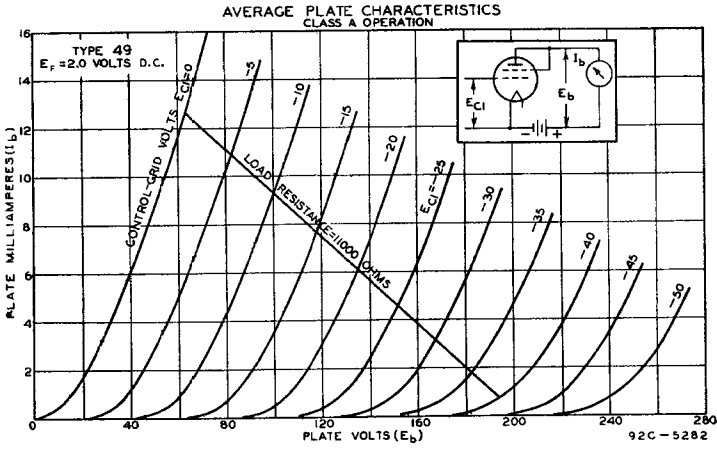
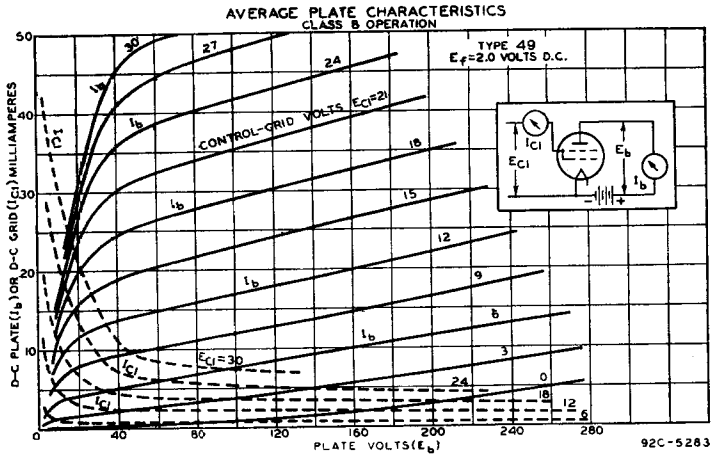
(Grid No. 2 connected to plate at socket)

PLATE VOLTAGE .....	135 max.	Volts
GRID VOLTAGE .....	-20	Volts
PLATE CURRENT .....	6.0	Milliamperes
PLATE RESISTANCE .....	4175	Ohms
AMPLIFICATION FACTOR .....	4.7	
TRANSCONDUCTANCE .....	1125	Micromhos
LOAD RESISTANCE .....	11000*	Ohms
POWER OUTPUT (Approximate).....	0.170	Watt

\* Approximately twice this value is recommended for load of this tube as driver for Class B stage.

### INSTALLATION AND APPLICATION

The base pins of the 49 fit the standard five-contact socket which should be installed to hold the tube in a vertical position. In some cases, cushioning of the socket may be found desirable. For filament operation, refer to INSTALLATION on type 1A6. Refer to APPLICATION for type 46. Plate characteristics curves are given on the following page.





<b>page</b>	<b>49 sheet</b>	<b>date</b>
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3	FP	1999.10.10