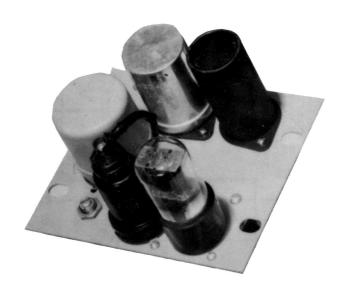
Western Electric Company

No. 141-A AMPLIFIER



Typical Characteristics

Frequency	Response
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 \pm 1 db, 50 to 15,000 c.p.s.

Output Noise

-45 dbm.

Source Impedance

 $30,\,250$ or 600 nominal. The source impedance may be $\pm~40\,\%$ from these values with little effect upon the response characteristics.

Load Impedance

Any impedance 600 ohms or over.

Gain

70 db maximum, with 600 ohm load.

Gain Control

Adjustable in three steps of 10 db each.

Output Power

The output power varies with the gain setting and load impedance and is tabulated below for representative operating conditions. These output levels are obtained with not more than 1% total harmonic distortion over the frequency range of 50 to 7500 cycles when a 300 volt d-c supply is employed.

Gain	Circuit	
Control	as	$R_{_{15}}$
Position	Supplied	Shorted
	600 ohm load	1
40	+11	+14
50	+11	+14
60	+10	+13
70	+ 6	+11
	6000 ohm load	
40	+17	+17
50	+17	+17
60	+17	+16
70	+15	+13

Power Required

Filament 0.9 ampere at 6.3 volts a-c or d-c. 15 ma. maximum at 275 to 300 volts d-c. This may be obtained from the Western Electric 18 or 20 type Rectifier, or the supply for one 141A Amplifier may be obtained from a 142A or 143A Amplifier.

Mounting

Mounts on 142A and 143A Amplifiers. For relay rack mounting, a 203A Mounting Plate equipped with a 403A Panel may be used to mount up to three 141A Amplifiers.

Dimensions

The amplifier panel is $4\frac{7}{16}$ " x $5\frac{3}{16}$ ". The apparatus extends $2\frac{1}{2}$ " above the panel and approximately $1\frac{7}{8}$ " below the panel.

