

142A AMPLIFIER

The 142A Amplifier is a basic amplifier unit with a power output of 25 watts. Its construction is such that a large variety of input combinations can be installed directly on the chassis. This permits stocking a number of basic units which can be easily modified to fit individual requirements.

Typical Specifications

Frequency Response: ±1 db, 50 to 15,000 cycles.

Output Noise: -30 dbm.

Harmonic Distortion: See Output Power.

Source Impedance: 0-250,000 ohms.

Load Impedance: 1.5 to 36 ohms or 70 volt loudspeaker distribution line. See Figure 54.

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Gain: 50 db from 600 ohm source.

Gain Control: Continuously variable master control. Chassis drilled for channel controls.

Output Power: As supplied for use with commercial receiver type tubes (6L6), 12 watts (+41 dbm) 50-7500 cycles with 5% total harmonic distortion. May be reconnected to use Western Electric 350B Tubes in the output circuit for 25 watts (+44 dbm) with less than 5% total harmonic distortion over the frequency range of 50-7500 cycles.

Power Supply: 105 - 125 volts, 60 cycles, a-c. 185 watts maximum (1.65 amperes). Fused with thermal cutout fuse.

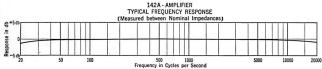
VACUUM TUBES

Quantity Required	Western Electr	Western Electric	
2 2 1	350B	or	Receiver Type 6SN7GT 6L6 5U4G
5			

Mounting: Relay rack or in KS-13625 List 3 Cabinet. When amplifier is mounted in the KS-13625 List 3 Cabinet it is coded the 1142A. For relay rack mounting a 405B Panel should be ordered. See page 95, Components and Accessories.

Dimensions: For relay rack mounting 83/4" x 19".

Finish: Chassis — light gray.



Frequency Response Curve, 142A Amplifier.

142B AMPLIFIER

The 142B Amplifier is a 142A basic unit plus a high gain pre-amplifier, the 141A. It is especially adaptable for use with microphone and other low output devices.

Typical Specifications

Frequency Response: ± 2 db, 50 to 15,000 cycles, ± 1 db, 50 to 10,000 cycles.

Output Noise: —5 dbm at maximum gain; —25 dbm at 90 db gain.

Harmonic Distortion: See Output Power.

Source Impedance: 30, 250, or 600 ohms.

Load Impedance: 1.5 to 36 ohms or 70-volt loudspeaker distribution line. See Figure 54.

Gain: 115 db.

Gain Controls: Continuously variable master and three steps of 10 db each on 141A chassis.

Output Power: As supplied for use with commercial receiver type tubes (6L6), 12 watts (+41 dbm), 50-7500 cycles with 5% total harmonic distortion. May be reconnected to use Western Electric 350B Tubes in the output circuit for 25 watts (+44 dbm), with less than 5% total harmonic distortion over the frequency range 50-7500 cycles.

Power Supply: 105 - 125 volts, 60 cycles, a-c. 185 watts maximum (1.65 amperes). Fused with thermal cutout fuse.

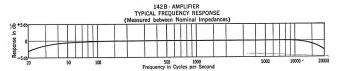
VACUUM TUBES

Quantity Required	ed Western Electric		Commercial Receiver Type
3			6SN7GT 6J7
2 1	350B	or	6L6 5U4G
7			

Mounting: Relay rack or in KS-13625 List 3 Cabinet. When the amplifier is mounted in the KS-13625 Cabinet it is coded the 1142B. For relay rack mounting a 405B Panel should be ordered. See page 95, Components and Accessories.

Dimensions: For relay rack mounting, 8¾" x 19".

Finish: Chassis - light gray.



Frequency Response Curve, 142B Amplifier.

142C AMPLIFIER

The 142C Amplifier is a 142A basic amplifier unit plus a line coil. It is especially suited for applications where high gain amplifiers are not required.

Typical Specifications

Frequency Response: ±1.5 db, 50-10,000 cycles.

Output Noise: -30 dbm.

Harmonic Distortion: See Output Power.

Source Impedance: 37.5, 150, or 600 ohms.

Load Impedance: 1.5 to 36 ohms, or 70 volt loudspeaker distribution line. See Figure 54.

Gain: 66 db.

Gain Control: Continuously variable.

Output Power: As supplied for use with commercial receiver type tubes (6L6), 12 watts (+41 dbm), 50-7500 cycles with 5% total harmonic distortion. May be reconnected to use Western Electric 350B Tubes in the output circuit for 25 watts (+44 dbm), with less than 5% total harmonic distortion over the frequency range of 50-7500 cycles.

Power Supply: 105 - 125 volts, 60 cycles, a-c. 185 watts maximum (1.65 amperes). Fused with thermal cutout fuse.

VACUUM TUBES

Quantity Required	Western Electric		Commercial Receiver Type
2 2 1	350B	or	6SN7GT 6L6 5U4G
5			

Mounting: Relay rack or in KS-13625 List 3 Cabinet. When amplifier is mounted in the KS-13625 List 3 Cabinet it is coded the 1142C. For relay rack mounting a 405B Panel should be ordered. See page 95, Components and Accessories.

Dimensions: For relay rack mounting, 8¾" x 19".

Finish: Chassis — light gray.

142D AMPLIFIER

The 142D is a basic 142A Amplifier unit plus a 141A pre-amplifier and a line coil. The two input circuits, one of which may be used with a microphone, provide a flexible combination of mixing and control, for practically all sound systems.

Typical Specifications

Frequency Response: Microphone Input: ±2db, 50-15,000 cycles; ±1 db, 50-10,000 cycles. Line Input: ±1.5 db, 50-10,000 cycles.

Output Noise: Microphone Input at maximum gain: —5 dbm. Microphone Input at 90 db gain: —25 dbm. Line Input: —30 dbm.

Harmonic Distortion: See Output Power.

Source Impedance: Microphone Input: 30, 250, 600 ohms. Line Input: 37.5, 150, 600 ohms.

Load Impedance: 1.5 to 36 ohms, or 70 volt loudspeaker distribution line. See Figure 54.

Gain Control: Continuously variable master and an additional three step control, 10 db each step, on 141A Preamplifier.

Output Power: As supplied for use with commercial receiver type tubes (6L6), 12 watts (+41 dbm), 50-7500 cycles with 5% total harmonic distortion. May be reconnected to use Western Electric 350B Tubes in the output circuit for 25 watts (+44 dbm), with less than 5% total harmonic distortion over the frequency range of 50-7500 cycles.

Power Supply: 105 - 125 volts, 60 cycles, a-c. 185 watts maximum (1.65 amperes). Fused with thermal cutout fuse.

VACUUM TUBES

Quantity Required	Western Electric		Commercial Receiver Type	
1 3 2	350B	or	6J7 6SN7GT 6L6	
1			5U4 G	
7				

Mounting: KS-13625 List 4 Cabinet. When amplifier is mounted in this cabinet it is coded the 1142D.

Finish: Chassis — light gray.

