



ZG-1449-18

The JMK **ZG-1449-18** audio amplifier is a dual channel audio amplifier capable of functioning in an automotive environment.

Each channel of the amplifier is capable of both simultaneous and independent operation.

The amplifier uses vehicle 12 volt power and contains all the necessary filtering and shielding to eliminate electromagnetic interference from other "on-board" equipment such as transmitters relays etc.

The amplifier is protected against reverse power hook-up and inadvertent "crow baring" of the audio output channels.

The amplifier can handle vibration and shock as is normally encountered in the automotive environment and storage temperatures of 85°C. It will operate with a 25% duty cycle continuously at 60°C. Typical voice or music signals can be amplified continuously even at 80°C



Performance Specifications:

Input Voltage = _____ 9—18 Volts dc operating
 = _____ 30 volts max non-operating

Output Power = _____ 18 Watts peak / channel
 = _____ 12.7 Watts RMS

Output Impedance = _____ 4.0 Ohms

Dynamic Range = _____ 40 Db

Power Bandwidth = _____ 20 Hz to 15 KHz 1

Harmonic Distortion = _____ 5%
 = _____ 10% Max @ Max Temp

Channel Separation = _____ 40 Db

Input Impedance = _____ 10 Kohm Min unbalanced

Input Sensitivity = _____ 176 mv for full power out

Weight = _____ 2.5 lbs

Environmental Specifications:

Operating Temp = _____ -30 to 60°C 2

Storage temp = _____ -40 to 85°C

Sealing = _____ Splash proof & Dust Proof

Humidity = _____ 98% @ 38°C
 = _____ 80% @ 66°C
 = _____ Per SAE J1455

Shock = _____ 30G, 6 millisecc.

Vibration = _____ 2G, 10 to 150 Hz

Standard Features:

1. Ignition switch controlled power.
2. Over voltage protection.
3. P.A. Microphone input. priority.
4. Interior / exterior or both audio selection.
5. AGC control function.
6. AGC speaker or microphone selection.
7. Audio output delay at power up for circuit stabilization.
(3 seconds)
8. .Master gain control for each source input.
9. Painted steel enclosure and conformal coated circuitry for reliable operation in harsh environments.

Available Options:

1. 30 second P.A. Microphone time out.
2. Pleasure radio input.
3. 24 volt input
4. Remote digital P.A. volume control.
5. P.A. microphone VOX

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Connections:

J1

1. Outside AGC out (-)
2. Outside AGC out (+)
3. Inside AGC out (+)
4. Inside AGC out (-)

J2

1. Inside AGC mic (+)
2. Inside AGC mic (-)
3. Inside speaker (+)
4. Inside speaker (-)
5. Outside Speaker (+)
6. Outside speaker (-)
7. Outside disable
8. Inside disable
9. Disable -15 V
10. N/C
11. + Batt

P1

1. PTT Key
2. Mic audio
3. Mic audio grd
4. PTT Key grd

P2

1. TIB outside audio (in)
2. TIB outside audio Grd
3. TIB inside audio (in)
4. TIB inside audio Grd

