



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 barring “ 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 ±
 Harmonic distortion: _____ 5% typical
 _____ 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 and Dust proof
- Humidity: _____ 98% @ 38°C
- _____ 80% @ 66°C
- _____ Per SAE J1455
- Shock: _____ 30G, 6 millisecond
- Vibration; _____ 2G, 10 to 150 Hz

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 |
|---|---|---|---|



ZG-1449-18

