

# AA-LNP9K1G-33

## SOLID STATE LOW NOISE AMPLIFIER



### FEATURES

Designed for EMI/RFI, lab, CW/Pulse and all communication applications.  
 Small form factor, Bench Top system  
 Class A linear advanced technology design  
 Suitable for all single channel modulation standards  
 Instantaneous ultra-broad bandwidth  
 Built-in protection circuits  
 Universal voltage AC power supply  
 High efficiency, with unprecedented reliability and ruggedness



### ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

| Parameter                 | Specification   | Notes                       |
|---------------------------|-----------------|-----------------------------|
| Operating Frequency Range | 9 KHz - 1.0 GHz |                             |
| Power Output @ Psat       | 2 Watt Min      | CW or Pulse                 |
| Power Output @ P1dB       | >1 Watt Typ     |                             |
| Linear Gain               | 33 dB Min       | 0dBm or less for rated Pout |
| Power Gain Flatness       | ±2.0 dB Max     | Constant input power        |
| Input Return Loss         | -10 dB Max      |                             |
| Harmonics                 | -20 dBc Typ     | At rated Pout               |
| Spurious                  | -60 dBc Max     | Non-harmonics               |
| Operating Voltage         | 100 - 240 VAC   | 47 - 63Hz                   |
| Power Consumption         | 50 Watt Max     | At rated Pout               |
| Input Power Protection    | +8 dBm Max      | Without damage              |
| Load VSWR Protection      | ∞ : 1           |                             |

### ENVIRONMENTAL CHARACTERISTICS<sup>1</sup>

| Parameter                     | Specification    | Notes          |
|-------------------------------|------------------|----------------|
| Operating Ambient Temperature | 0 to +50 °C      |                |
| Storage Temperature           | -40 to +70 °C    |                |
| Relative Humidity             | up to 95 %       | Non-condensing |
| Altitude                      | 3000 meters      |                |
| Shock & Vibration             | Normal transport |                |

### MECHANICAL SPECIFICATIONS

| Parameter                      | Specification               | Notes                |
|--------------------------------|-----------------------------|----------------------|
| Dimensions W x H x D           | 210 x 100 x 300 mm          | Excluding brackets   |
| Benchtop                       | 242 x 110 x 384 mm          | Including brackets   |
| Weight                         | 6 kg.                       |                      |
| RF Connectors In/Out           | N Female                    | Front panel standard |
| AC Power / Interface Connector | IEC 60320-C14 / 9-Pin D-Sub | Or equivalent        |
| Cooling                        | Built in Fan Cooling        |                      |

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## BENCH TOP CHASSIS

