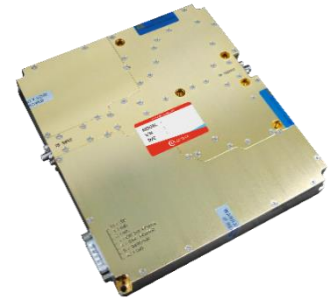


# AMP1062 SOLID STATE HIGH POWER AMPLIFIER



## FEATURES

Class AB linear hybrid GaAs and GaN design  
Instantaneous ultra-wide bandwidth  
Suitable for all single channel modulation standards  
Suitable for S, X and Ku band applications  
Built-in protection circuits  
High reliability and ruggedness

## ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

| Parameter                 | Specification            | Notes                    |
|---------------------------|--------------------------|--------------------------|
| Operating Frequency Range | 6.0 - 18.0 GHz           |                          |
| Power Output @ Psat       | 40 Watt Min              | Pin = ≤0dBm for Nom Pout |
| Power Output @ P1dB       | 25 Watt Typ              | For Reference only       |
| Power Gain                | 46 dB Min                |                          |
| Power Gain Flatness       | 4.0 dB p-p Max           |                          |
| Input Return Loss         | -10 dB Max               |                          |
| Harmonics                 | -20 dBc Typ              | At rated Pout            |
| Spurious                  | -60 dBc Max              | Non-harmonics            |
| Noise Figure              | 10 dB Max                |                          |
| Operating Voltage         | 32 VDC Nom               |                          |
| Current Consumption       | <14 Amp Typ / 15 Amp Max | At rated Pout            |
| Input Power Protection    | +3 dBm Max               | <10 Sec without damage   |
| Load VSWR Protection      | 3 : 1 Max                | <1 minute @ rated Pout   |

## ENVIRONMENTAL CHARACTERISTICS

| Parameter                  | Specification | Notes          |
|----------------------------|---------------|----------------|
| Operating Case Temperature | -20 to +65°C  |                |
| Storage Temperature        | -40 to +85°C  |                |
| Relative Humidity          | 5 to 95 %     | Non-condensing |

## MECHANICAL SPECIFICATIONS

| Parameter                      | Specification                                 | Notes                |
|--------------------------------|-----------------------------------------------|----------------------|
| Dimensions                     | 180 x 200 x 27 mm / (7.09 x 7.87 x 1.06 inch) | Excluding connectors |
| Weight                         | 5.2 Kg                                        |                      |
| RF Connectors In/Out           | SMA female                                    | Cover Flange         |
| DC Power / Interface Connector | 7-Pin Hybrid D-Sub                            |                      |
| Cooling                        | External Heatsink                             | Forced air required  |

## D-SUB CONNECTOR PIN ASSIGNMENT

| Pin | Function       | Description                                             |
|-----|----------------|---------------------------------------------------------|
| 1   | GND            | Ground                                                  |
| 2   | N/C            | N/A                                                     |
| 3   | Current Sensor | I <sub>b</sub> @20mV/100mA Typ                          |
| 4   | Temp. Sensor   | V <sub>T</sub> @10mV/°C + 500mV Typ                     |
| 5   | Shutdown       | Enable = TTL "Hi" or open / Disable = TTL "Lo" or short |
| A1  | VDD            | 32VDC                                                   |
| A2  | GND            | Ground                                                  |

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## OUTLINE DRAWING

