

## AUNA-202

### 1.0 W 14-16 Volts, DC- 200MHz

#### Introduction

The AUNA-202 is a 50 Ohm hybrid amplifier module designed for broadband operation in Class A amplifier driver applications operating from DC to 200MHz. Its wide dynamic range and flexibility make it ideal for a broad spectrum of instrumentation, receiver, and transmitter applications.

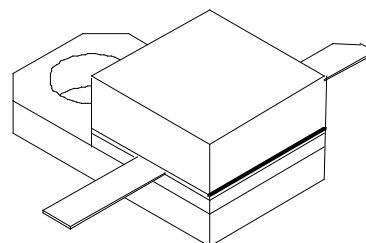
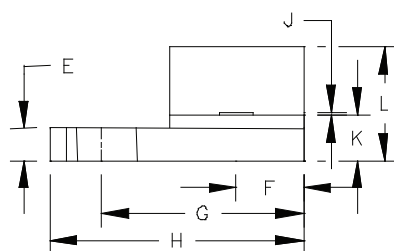
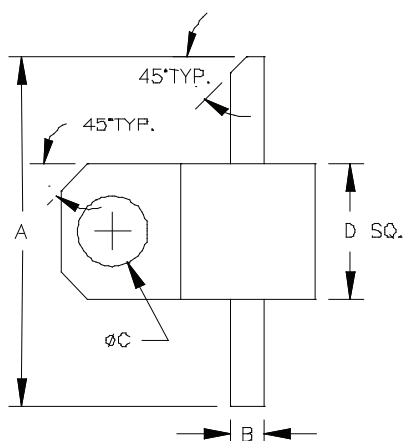
#### Features

- Gold Metalized
- Internally matched to 50 Ohms
- Caccadeable
- Wide dynamic range

| ELECTRICAL CHARACTERISTICS at Tcase = 25 Deg C. |                               |      |         |       |       |                                 |
|---|-------------------------------|------|---------|-------|-------|---------------------------------|
| Symbol  | Characteristics               | Min. | Typ.    | Max.  | Units | Test Conditions                 |
| Ga  | Small signal Gain             | 12.0 | 13.0    |       | dBm   | Freq = 1 -200MHz<br>Idc = 350mA |
| Delta Ga  | Gain Flatness                 |      | +/- 0.5 | +/- 1 | dB    |                                 |
| P1dB  | Pout @ 1dB Comp.              | +30  | +32     |       | dBm   |                                 |
| VSWR  | Input Mismatch                |      | 1.5:1   | 2.0:1 |       |                                 |
| Vdc   | Operating voltage             | 14.0 | 15.0    | 16.0  | Volts |                                 |
| Delta Tjf                                       | Temp. Rise Junction to Flange |      | +50     |       | C     | Freq = 70MHz<br>Idc = 350mA     |
| NF  | Noise Figure                  |      | 5.0     |       | dBm   |                                 |
| IP3   | 3rd Order Intercept           |      | +50     |       | dBm   |                                 |
| T Oper.   | Operating Temp.               | -55  |         | +125  | Deg C |                                 |
| T Stor.   | Storage Temp                  | -55  |         | +150  | Deg C |                                 |

\* Stresses in excess of the absolute maximum ratings can cause permanent damage to the device. These are absolute stress ratings only. Functional operation of the device is not implied at these or any other conditions in excess of those given in the operational sections of the data sheet. Exposure to absolute maximum ratings for extended periods can adversely affect device reliability.

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|   | MINIMUM<br>INCHES/MM  | MAXIMUM<br>INCHES/MM |
|---|-----------------------|----------------------|
| A | 0.620 / 15.75 MINIMUM |                      |
| B | 0.055 / 1.40          | 0.065 / 1.65         |
| C | 0.125 / 3.18          | 0.135 / 3.43         |
| D | 0.245 / 6.22          | 0.255 / 6.48         |
| E | 0.055 / 1.40          | 0.065 / 1.65         |
| F | 0.120 / 3.05          | 0.130 / 3.30         |
| G | 0.370 / 9.40          | 0.380 / 9.66         |
| H | 0.465 / 11.81         | .475 / 12.07         |
| J | 0.004 / 0.102         | 0.006 / 0.152        |
| K | 0.080 / 2.03          | 0.090 / 2.29         |
| L | 0.220 / 5.59 MAXIMUM  |                      |