

Rev:A00

Cryogenic Bipolar Amplifier



Technical requirements

| Item | Specifications |
|--------------|-------------------------|
| Model | See datasheet |
| Frequency | 4-8GHz |
| Noise figure | ≤ 1.2 dB |
| Gain | 58dB |
| DC Power | $V = +5V, I \leq 0.04A$ |
| Temperature | 50K-300K |
| RF Connector | SMA-F & SMA-F |
| DC Connector | See datasheet |

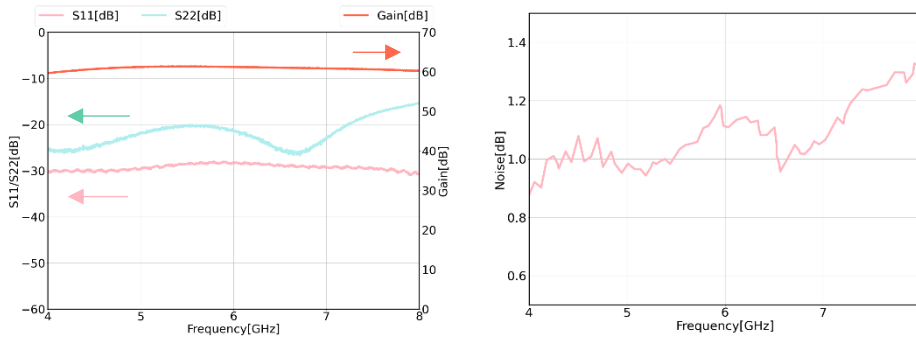
Material and surface

| Item | Material | Surface |
|-----------|----------------------|----------------------|
| Connector | Outer conductor | Stainless steel |
| | Center conductor | Beryllium bronze |
| | Connector-dielectric | PTFE |
| Cavity | AL | Conductive anodizing |

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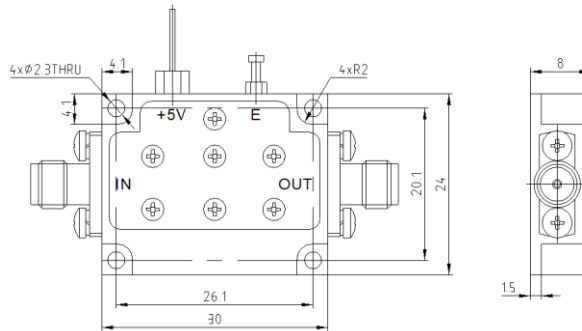
Test Results

Measure data, $T_{amb}=300K$

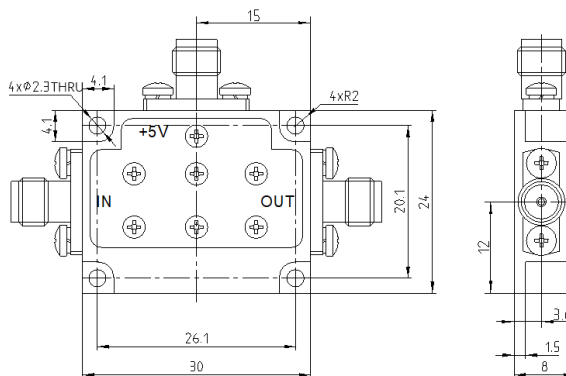


Outline drawing (Unmarked tolerance: $\pm 0.1mm$)

AMPG00811A001



AMPG00811A004



Datasheet

| Model | DC Connector |
|---------------|--------------------|
| AMPG00811A001 | Feedthru capacitor |
| AMPG00811A004 | SMA-F |