

## MAM110170-L50 Low Noise Amplifier

### Features

- Low noise figure: 5 dB
- Broadband amplification
- Built-in voltage regulator circuit

### Applications

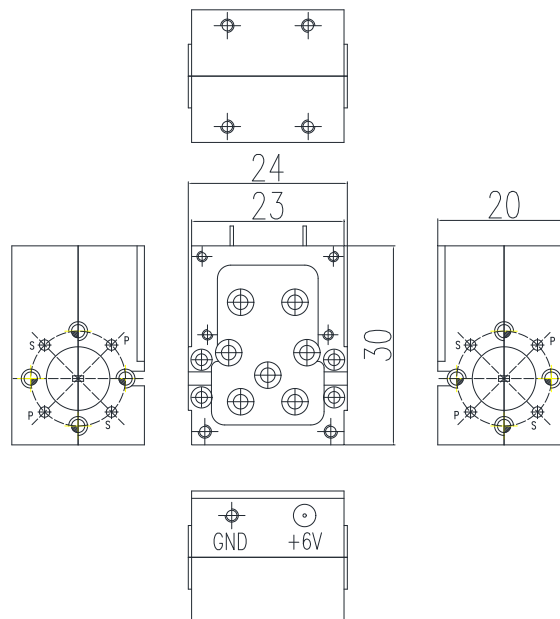
Instruments and meters



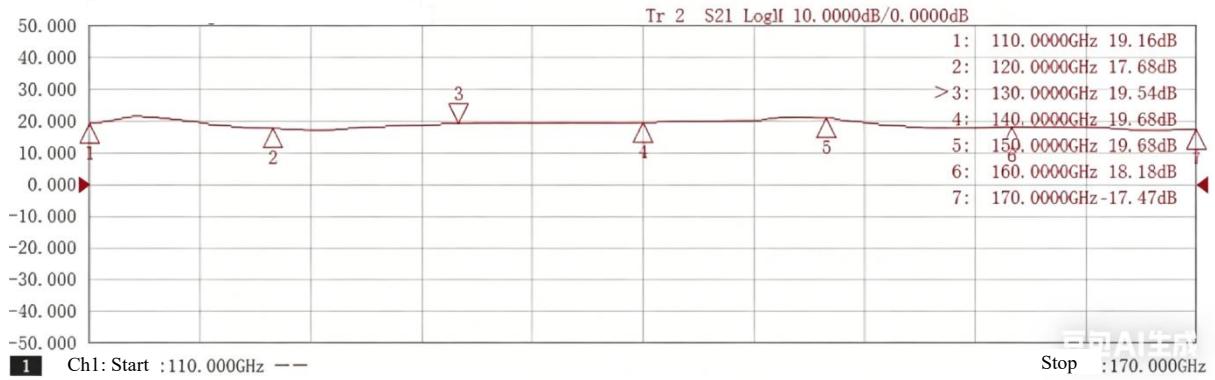
### Electrical Specifications Table

| Parameter Name     | Condition<br>( $T_A=25^\circ\text{C}$ ) | Limit |      |      | Unit |
|--------------------|---|-------|------|------|------|
|                    |   | Min.  | Typ. | Max. |      |
| 1.Frequency        | V1=+6V                                  | 110   |      | 170  | GHz  |
| 2.Gain             |   | 17    | 18   | 20   | dB   |
| 3.Noise Figure     |   |       | 5    |      | dB   |
| 4.Psat             |   |       | -3   |      | dBm  |
| 5.Input Interface  |   |       | WR-6 |      |      |
| 6.Output Interface |   |       | WR-6 |      |      |
| 7.Current          |   |       | 30   |      | mA   |

### Outline Drawing



### Gain vs. Frequency Curve



### Noise Figure / Output Power Data Table

| Frequency (GHz) | Noise Figure (dB) | Frequency (GHz) | Noise Figure (dB) | Frequency (GHz) | Noise Figure (dB) |
|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|
| 110             | 2.4               | 131             | 4.9               | 152             | 3.5               |
| 113             | 4.0               | 134             | -                 | 155             | 4.5               |
| 116             | -                 | 137             | -                 | 158             | 4.4               |
| 119             | -                 | 140             | 4.5               | 161             | 4.9               |
| 122             | -                 | 143             | 4.8               | 164             | 4.1               |
| 125             | -                 | 146             | 3.7               | 167             | 4.2               |
| 128             | 2.3               | 149             | 3.3               | 170             | 4.9               |