

## FLA-500-8000-30-22

0.5~8GHz, 30dB, 2.2dB

Features:  
 \* Broad Band  
 \* Low Noise

Applications:  
 \* Wireless  
 \* Receiver  
 \* Laboratory Test  
 \* Radar

### Electrical

|                      |            |
|----------------------|------------|
| Frequency:           | 0.5~8GHz   |
| Gain:                | 30dB typ.  |
| Output Power (P1dB): | 17dBm typ. |
| Noise Figure:        | 2.2dB typ. |
| Input VSWR:          | 2.5 typ.   |
| Output VSWR:         | 1.5 typ.   |
| Voltage/Current:     | +5V/300mA  |
| Impedance:           | 50Ω        |

### Absolute Maximum Ratings\*1

|                 |       |
|-----------------|-------|
| RF Input Power: | -5dBm |
| Voltage:        | +7V   |

[1] Permanent damage may occur if any of these limits are exceeded.

### Mechanical

|                |                                   |
|----------------|-----------------------------------|
| Size*2:        | 36*28*12mm<br>1.417*1.102*0.472in |
| Weight:        | 26.8g                             |
| RF Connectors: | SMA Female                        |
| Mounting:      | 4-Φ2.2mm through-hole             |

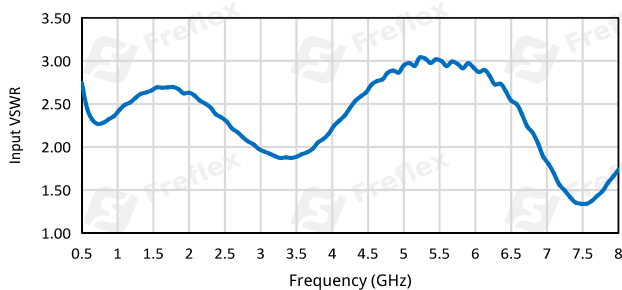
[2] Exclude connectors.

### Environmental

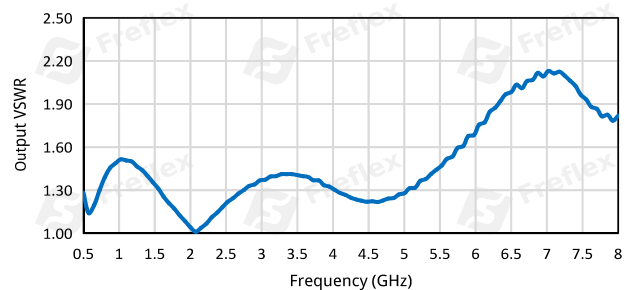
|                            |            |
|----------------------------|------------|
| Operating Temperature:     | -40~+85°C  |
| Non-operating Temperature: | -55~+150°C |

### Typical Performance Curves

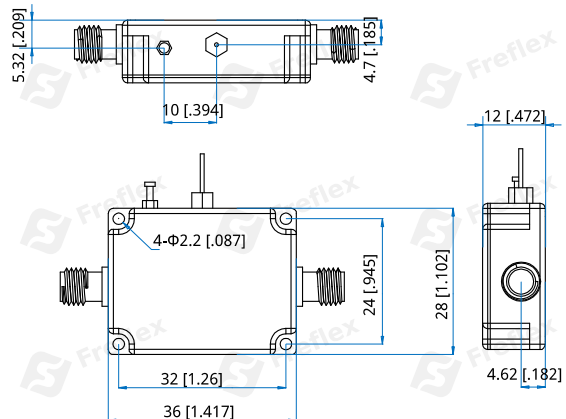
Input VSWR vs. Frequency



Output VSWR vs. Frequency



### Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

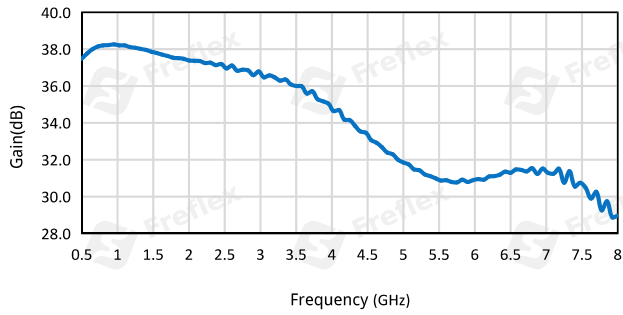
### How To Order

**FLA-500-8000-30-22**

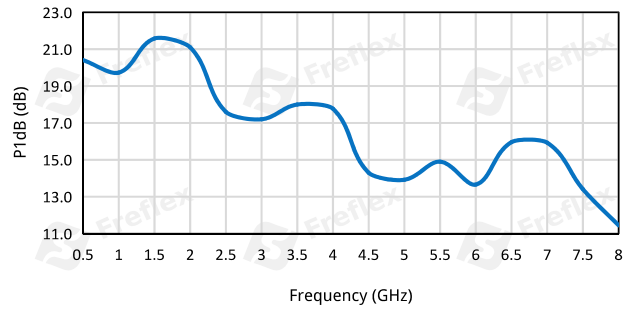
Customization is available upon request.

# Low Noise Amplifier

Gain vs. Frequency



P1dB vs. Frequency



Noise Figure vs. Frequency

