

## YSLA18-10M-70-5

Low Noise Amplifier | LNA | 0.01-70 GHz | 18 dB Gain | 5.0 dB NF

### Key Features

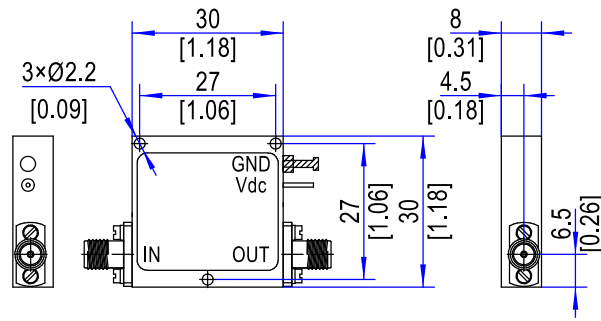
- Ultra-Wideband Coverage
- High gain low-noise amplifier
- Low Noise Figure
- Compact & Rugged Design

### Applications

- RF receiver front-end
- Microwave communication systems
- Radar systems
- Satellite communication
- RF test and measurement

| Electrical Specifications             |                                |      |      |      |
|---------------------------------------|--------------------------------|------|------|------|
| Parameter                             | Min.                           | Typ. | Max. | Unit |
| Frequency Range                       | 0.01                           | -    | 70   | GHz  |
| Gain                                  | -                              | 18   | -    | dB   |
| Gain Flatness                         | -                              | ±2.0 | -    | dB   |
| Input VSWR                            | -                              | 1.8  | 2.5  | -    |
| Output VSWR                           | -                              | 1.8  | 2.5  | -    |
| Output P1dB                           | -                              | 15   | -    | dBm  |
| Output Psat                           | -                              | 16   | -    | dBm  |
| Spurious                              | -                              | -60  | -    | dBc  |
| OIP3                                  | -                              | 20   | -    | dBm  |
| Noise Figure                          | -                              | 5.0  | -    | dB   |
| Input Max Power(no damage)            | -                              | -    | +5   | dBm  |
| Supply Voltage                        | -                              | +12  | -    | V    |
| Supply Current                        | -                              | 200  | -    | mA   |
| Impedance                             | 50                             |      |      | Ω    |
| Environmental Specifications          |                                |      |      |      |
| Operating Temperature                 | -25°C to +85°C                 |      |      |      |
| Storage Temperature                   | -55°C to +125°C                |      |      |      |
| * Heat Sink required during operation |                                |      |      |      |
| Mechanical Specifications             |                                |      |      |      |
| Connectors                            | 1.85 mm Female                 |      |      |      |
| Material                              | Aluminium / Gold Plated        |      |      |      |
| Weight                                | 50 g                           |      |      |      |
| Dimensions <sup>1</sup>               | 30×30×8 mm [1.18×1.18×0.31 in] |      |      |      |

**Outline Drawing** (Units: mm/[inch], Tolerance: ±0.2 mm)



Note 1: Excluding Connectors