

3.5 dB NF, 26.5 GHz to 40 GHz, Low Noise Broad-band Amplifier with 13.5 dBm, 22 dB Gain, 22 dBm IP3 and 2.92mm

SLNA-400-22-35-K is a 13.5 dBm power amplifier designed for operation in the 26.5 GHz to 40 GHz frequency range. The amplifier provides an IP3 of 22 dBm Typ and 22 dB of Gain Typ over the operating frequency range. The amplifier requires only +12 VDC power supply.

Electrical Specifications (TA = +25°C, DC Voltage = 12Volts, DC Current = 125mA)



| Description | Min | Typ | Max | Unit |
|-----------------------------------|------|-------|-------|-------|
| Frequency Range | 26.5 | | 40 | GHz |
| Gain | 20 | 22 | 25 | dB |
| Gain Flatness | | ±0.75 | ±1.25 | dB |
| P1dB | +12 | +13.5 | | dBm |
| IP3 | +20 | +22 | | dBm |
| Reverse Isolation | | 45 | | dB |
| Spurious | | -60 | | dBc |
| Noise Figure | | 3.5 | 4.5 | dB |
| Input VSWR | | 1.7:1 | 2.5:1 | |
| Output VSWR | | 1.7:1 | 2.5:1 | |
| Operating DC Voltage | 8 | 12 | 15 | Volts |
| Operating DC Current | 110 | 125 | 150 | mA |
| Operating Temperature Range (OTR) | -40 | | +75 | °C |

Features:

- 26.5 GHz to 40 GHz Frequency Range
- P1dB 13.5 dBm min.
- IP3 22 dBm typ.
- Gain 22 dB typ.
- Gain Flatness +/-0.75 dB

Applications:

- Medium Power Amplifier
- Driver Amp
- Military Communications
- Test & Measurement

Absolute Maximum Rating

| Parameter | Rating | Units |
|------------------------------------|-------------|-------|
| Source Voltage | +18 | Volts |
| RF input Power | +10 | dBm |
| Operating Temperature (base-plate) | -40 to +75 | °C |
| Storage Temperature | -55 to +125 | °C |



ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.

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Mechanical Specifications

Size

| | |
|------------------|-------------------|
| Length | 1.5 in [38.1 mm] |
| Width | 1 in [25.4 mm] |
| Height | 0.4 in [10.16 mm] |
| Input Connector | 2.92mm |
| Output Connector | 2.92mm |

Environmental Specifications

Temperature

| | |
|-----------------|-------------------|
| Operating Range | -40 to +75 deg C |
| Storage Range | -45 to +125 deg C |

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

| | |
|----------------|-----|
| RoHS Compliant | Yes |
|----------------|-----|

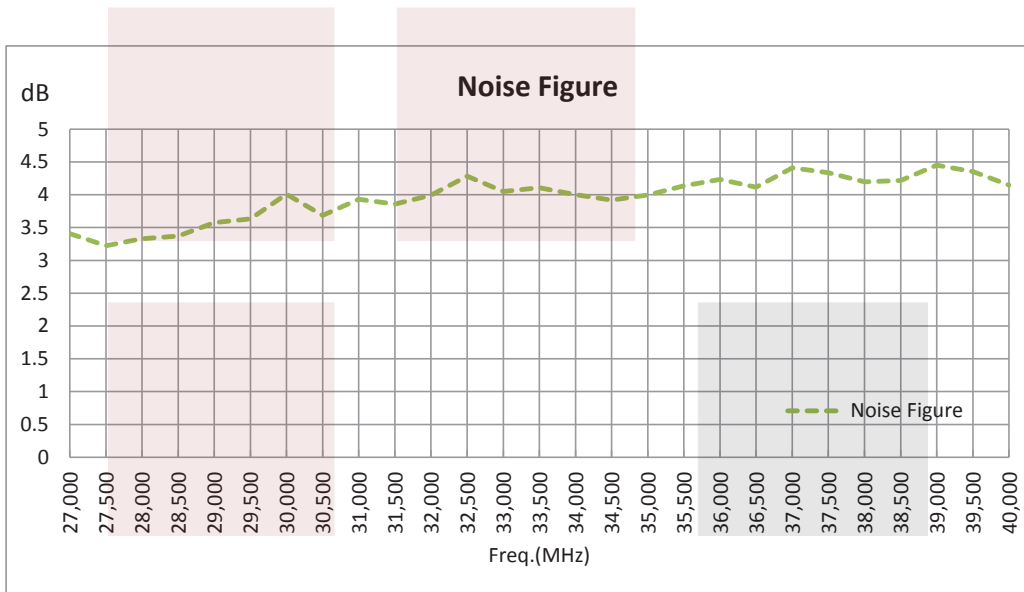
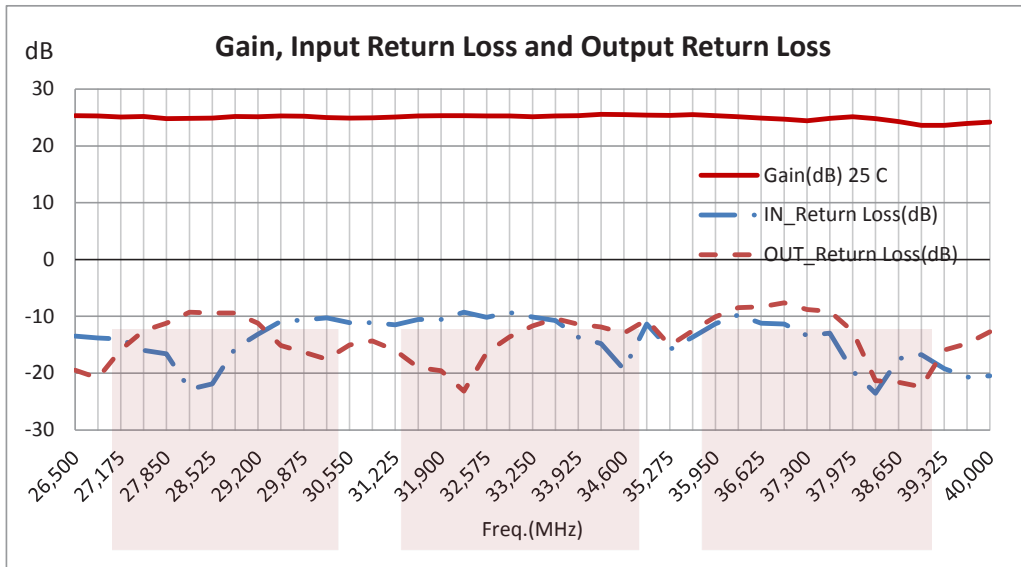
Plotted and Other Data

Notes:

- Values at 25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.



Typical Performance Data

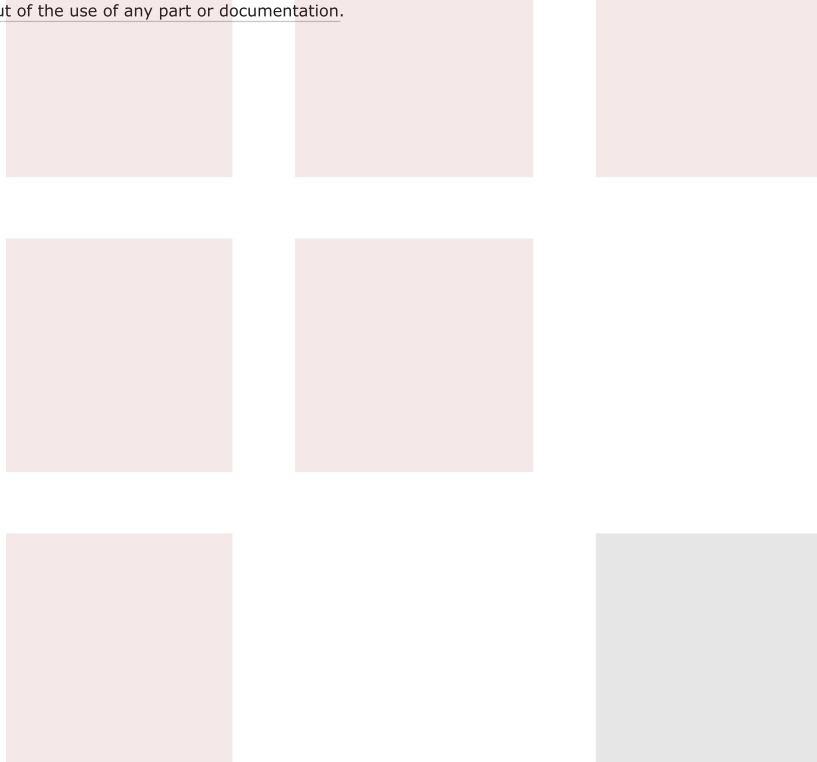


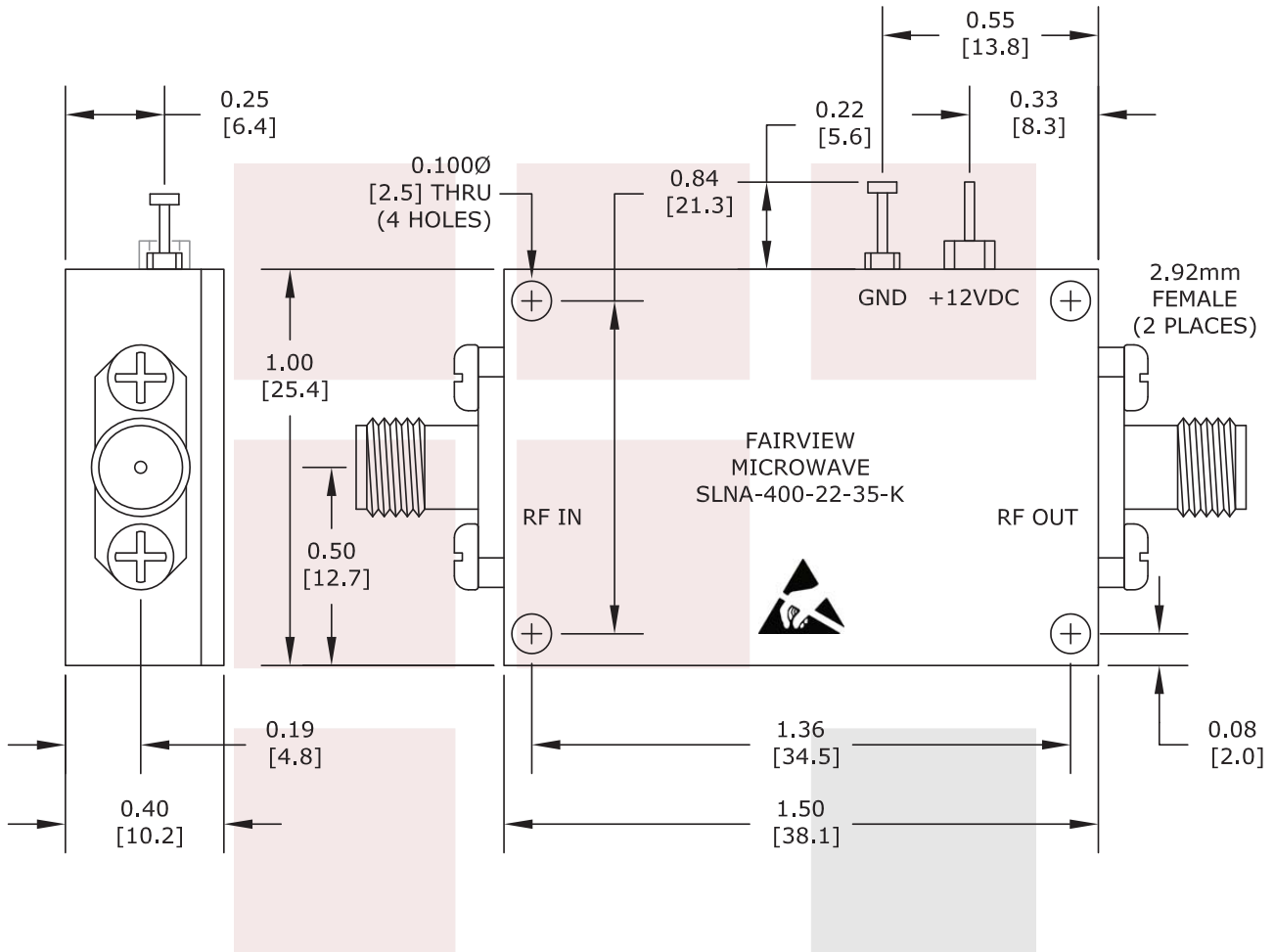
3.5 dB NF, 26.5 GHz to 40 GHz, Low Noise Broadband Amplifier with 13.5 dBm, 22 dB Gain, 22 dBm IP3 and 2.92mm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [3.5 dB NF, 26.5 GHz to 40 GHz, Low Noise Broadband Amplifier with 13.5 dBm, 22 dB Gain, 22 dBm IP3 and 2.92mm SLNA-400-22-35-K](#)

URL: <http://www.fairviewmicrowave.com/26.5-40-ghz-low-noise-broadband-amplifier-slna-400-22-35-k-p.aspx>

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NOTE:
HEAT SINK REQUIRED FOR PROPER OPERATION,
UNIT IS COOLED BY CONDUCTING TO HEAT SINK.

| | | | | | |
|--|--|---|--|-----------------------------|--|
| FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM | | NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm]. | | | |
| TITLE 3.5 dB NF, 26.5 GHz to 40 GHz, Low Noise Broadband Amplifier with 13.5 dBm, 22 dB Gain, 22 dBm IP3 and 2.92mm | | DWG NO SLNA-400-22-35-K | | CAGE CODE 3FKR5 | |
| CAD FILE 040215 | | SHEET | | SCALE N/A SIZE A 2233 | |