

SPA-400-30-001-K DATA SHEET

18 GHz to 40 GHz, Medium Power Broadband Amplifier with 20 dBm, 30 dB Gain and 2.92mm

SPA-400-30-001-K is a broadband coaxial low noise amplifier, operating in the 18 to 40 GHz frequency range. The amplifier offers 20 dBm of P1dB min and 30 dB small signal gain typ, with the gain flatness of ± 2.0 dB typ performance. This low noise amplifier requires only a single positive DC supply, in unconditionally stable, operates over the temperature range of -40°C to 50°C, and is Hermetically sealed.

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

| JMA) | | | | |
|-----------------------|-----------------|-----|-----|-------|
| Description | Min | Тур | Max | Unit |
| Frequency Range | 18 | | 40 | GHz |
| Gain | | 30 | | dB |
| Gain Flatness | | ±2 | | dB |
| P1dB | +20 | | | dBm |
| Noise Figure | | 4 | 6 | dB |
| Input VSWR | | 2:1 | | |
| Output VSWR | | 2:1 | | |
| Operating DC Voltage | 8 | | 12 | Volts |
| Operating DC Current | | 350 | | mA |
| Operating Temperature | Range (OTR) -40 | | +50 | °C |

FAIRVIEW MICROWAVE SPA-400-30-001-K www.fairviewmicrowave.com

Features:

- 18 to 40 GHz Frequency Range
- P1dB: 20 dBm min
- Small Signal Gain: 30 dB typ
- Gain Flatness: ±2.0 dB
- Noise Figure: 4 dB typ
- 50 Ohm Input and Output Matched
- -40 to +50°C Operating Temperature
- · Unconditionally Stable
- Single DC Positive Supply
- Built-in DC Voltage Regulator

Applications:

- · Laboratory Applications
- R&D Labs
- Test Instrumentation
- Telecommunication

Mechanical Specifications

| Size | |
|------------------|-------------------|
| Length | 1.2 in [30.48 mm] |
| Width | 1.2 in [30.48 mm] |
| Height | 0.6 in [15.24 mm] |
| Input Connector | 2.92mm Female |
| Output Connector | 2.92mm Female |

Environmental Specifications

Temperature

Operating Range -40 to +50 deg C

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

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.
- Heat Sink Required for Proper Operation, Unit is cooled by conduction to heat sink.

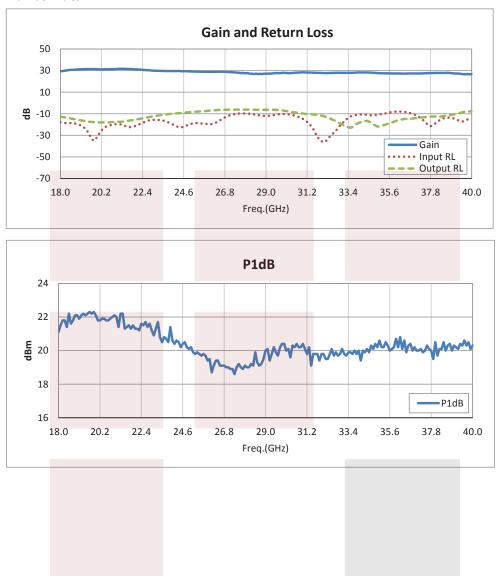


Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013 Tel: 1-800-715-4396 / (972) 649-6678

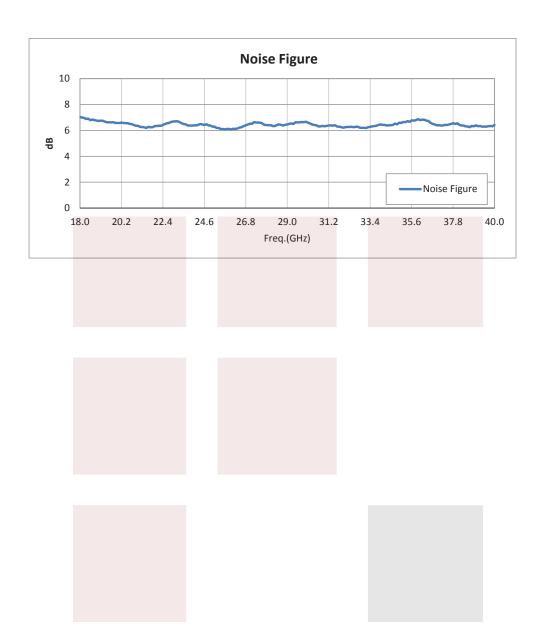
Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com



Typical Performance Data







18 GHz to 40 GHz, Medium Power Broadband Amplifier with 20 dBm, 30 dB Gain and 2.92mm from Fairview Microwave is instock 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.

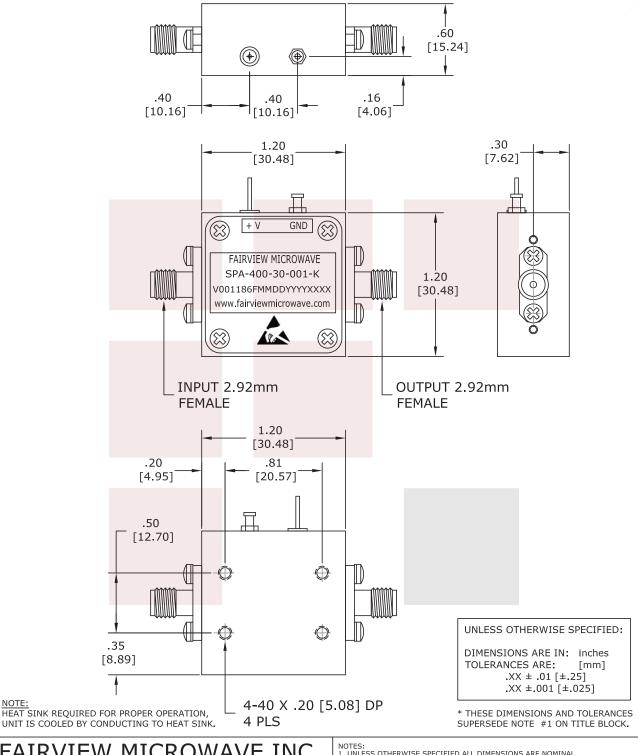
For additional information on this product, please click the following link: 18 GHz to 40 GHz, Medium Power Broadband Amplifier with 20 dBm, 30 dB Gain and 2.92mm SPA-400-30-001-K

URL: http://www.fairviewmicrowave.com/18-40-ghz-medium-power-broadband-amplifier-spa-400-30-001-k-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



SPA-400-30-001-K DATA SHEET



| 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]. | | | | | | | |
|---|---|--------|-------|------|-----------------|--------|------|--|
| 18 GHz to 40 GHz, Medium Power Broadband | DWG NO SPA-400-30-001-K | | | | CAGE CODE 3FKR5 | | | |
| Amplifier with 20 dBm, 30 dB Gain and 2.92mm | CAD FILE | 081815 | SHEET | SCAL | E N/A | SIZE A | 2233 | |