

### SPA-400-20-001-K DATA SHEET

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

SPA-400-20-001-K is a broadband coaxial low noise amplifier, operating in the 26.5 to 40 GHz frequency range. The amplifier offers 20 dBm of P1dB typ and 30 dB small signal gain typ, with the gain flatness of  $\pm 2.0$  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	26.5		40	GHz
Gain		30		dB
Gain Flatness		±2		dB
P1dB	+18	+20		dBm
Noise Figure			6	dB
Input VSWR		2:1		
Output VSWR		2:1		
Operating DC Voltage	8		12	Volts
Operating DC Current		350	<u> </u>	mA
Operating Temperature I	Range (OTR) -40		+50	°C

#### **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.





#### Features:

- 26.5 to 40 GHz Frequency Range
- P1dB: 18 dBm min
- Small Signal Gain: 30 dB typ
- Gain Flatness: ±2.0 dB
- Noise Figure: 6 dB max
- 50 Ohm Input and Output Matched
- -40 to +50°C Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply
- Built-in DC Voltage Regulator

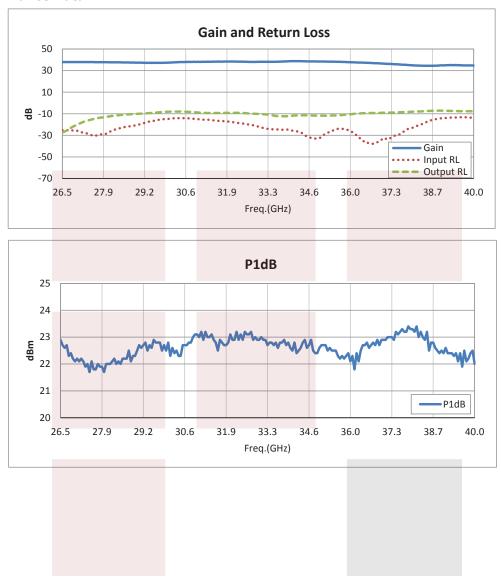
#### Applications:

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

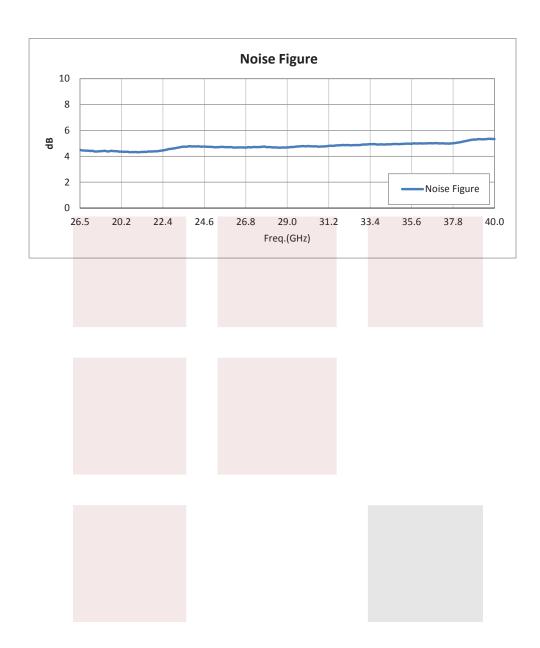
Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com



#### **Typical Performance Data**







26.5 GHz to 40 GHz, Medium Power Broadband Amplifier with 20 dBm, 30 dB Gain 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.

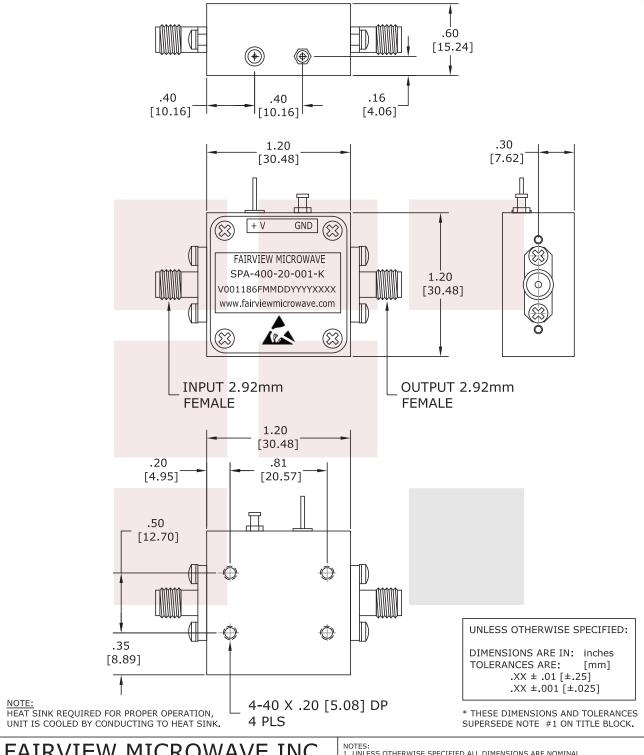
For additional information on this product, please click the following link: 26.5 GHz to 40 GHz, Medium Power Broadband Amplifier with 20 dBm, 30 dB Gain and 2.92mm SPA-400-20-001-K

URL: http://www.fairviewmicrowave.com/26.5-40-ghz-medium-power-broadband-amplifier-spa-400-20-001-k-p.aspx

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