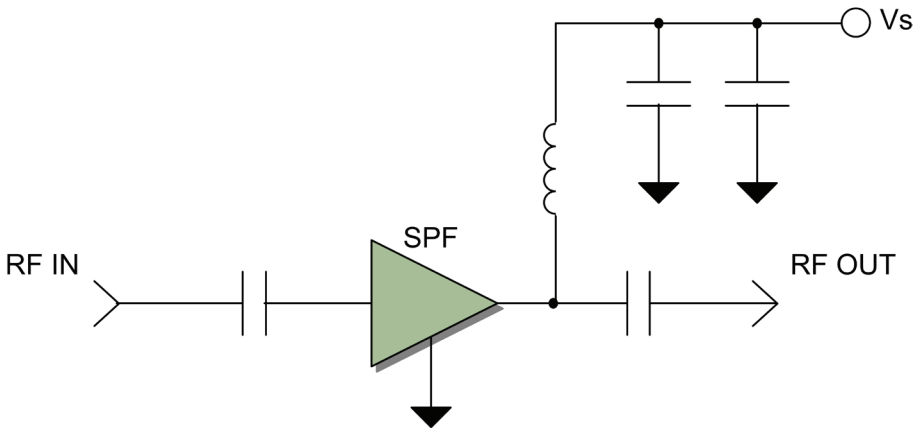
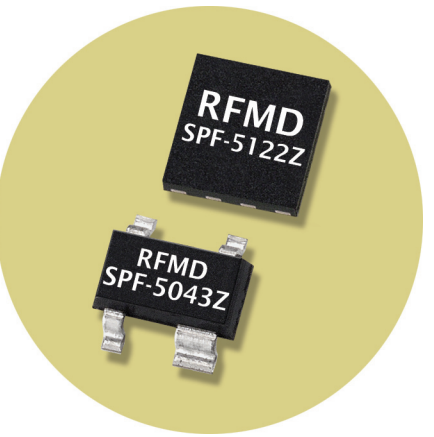
RFMD® SPF-5043Z and SPF-5122Z

100 MHz to 4000 MHz, GaAs pHEMT MMIC Low Noise Amplifiers





The SPF-5043Z and SPF-5122Z are high-performance 100 MHz to 4000 MHz pHEMT MMIC low noise amplifiers (LNAs). The on-chip active bias network provides stable current over temperature and process variations. They offer ultra-low noise figure and high-linearity performance in a simple gain block configuration. A single 3 V to 5 V supply and minimal application circuit allow for maximum flexibility with a low bill of materials cost. High P1 dB and maximum RF input power specifications make these LNAs ideal for high dynamic range receivers. They are internally matched to 50 ohms.

SPF-5043Z AND SPF-5122Z SPECIFICATIONS

Part Number	Frequency	Gain	Id	NF	Output IP3	P1dB	Vcc
SPF-5043Z	100 MHz to 4000 MHz	18.2 dB [1]	46 mA	0.8 dB [1]	33 dBm [1]	20 dBm [1]	3.0 - 5.0
SPF-5122Z	100 MHz to 4000 MHz	18.9 dB [1]	90 mA	0.6 dB [1]	38 dBm [1]	23 dBm [1]	3.0 - 5.0

1 - Typical Performance at 900 MHz

FEATURES

- Single 3 V to 5 V supply operation
- Broadband internal matching
- Robust MSL-1 rating
- Ultra low noise figure, high linearity
- Multiband operation
- Active biased
- Ideal for cellular, PCS, WCDMA, ISM Band, WiMAX receivers and low-noise, high-linearity gain block applications

For sales or technical support, contact RFMD at 336.678.5570, Ext. 1 or sales-support@rfmd.com
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