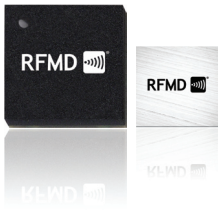
RFMD®.

WiFi and WiMAX Low Noise Amplifier Portfolio



RFMD® delivers low noise amplifiers (LNAs) for a range of digital cellular, WiFi, and WiMAX applications. Providing high dynamic range, superior performance, and low current consumption, RFMD's portfolio of LNAs enables compact designs through various module-compatible, standard plastic flip-chip packages.

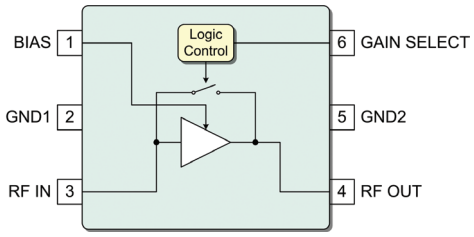
FEATURES

- **High dynamic range**
- **Low current consumption**
- **Available in SOT-5 and -6 lead QFN, plastic, and flip-chip packages**
- **Internally matched at 50-ohms (RF5515)**
- **Bias current may be set externally (RF2370, RF2373, RF2374)**
- **Low profile packages**

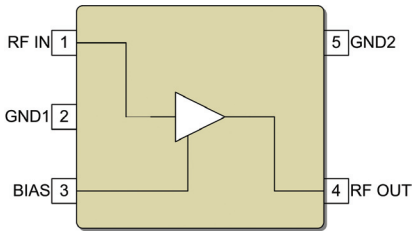
SPECIFICATIONS

Part Number	*Description*	*Freq (MHz)*	*Gain (dB)*	*NF (dB)*	*P1dB (dBm)*	*V_D (V)*	*I_D (mA)*	*Package Style*
RF2374	Broadband LNA w/ bypass mode	900 to 4000	14	1.3	-5.0	3.3	10	QFN-8, 2.2 x 2.2 mm
RF2370	Broadband LNA w/ bypass mode	900 to 4000	14	1.3	-5.0	3.3	10	SOT-6 lead
RF2373	Broadband LNA	400 to 3000	15	1.3	-3.5	3.3	10	SOT-5 lead
SGA-8343	Broadband LNA	DC to 4000	14	1.2	-5.0	3.3	10	SOT-343
RF2472	Broadband LNA	DC to 6000	14	1.5	-8.0	2.7 to 4.8	6	SOT-5 lead
RF5601	5 GHz LNA w/ bypass	4900 to 5900	11	1.6	-2.0	2.3 to 4.8	12	QFN-8, 2.2 x 2.2 x 0.45 mm
RF5515	5 GHz LNA	4900 to 5900	11	1.6	-2.0	2.3 to 4.8	12	QFN-8, 2.2 x 2.2 x 0.45 mm

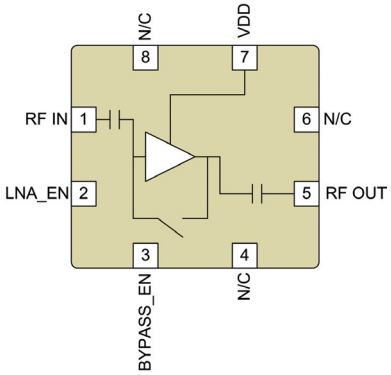
RF2370



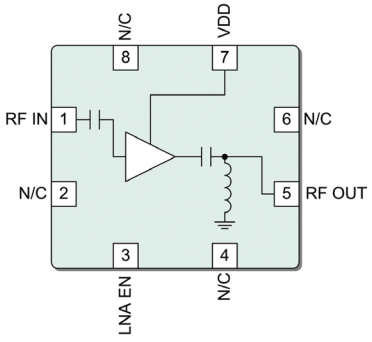
RF2373



RF5601



RF5515



RFMD®.

Switch + LNA Front End Solutions

RFMD® offers a range of switch and switch plus low noise amplifier (LNA) front end solutions designed specifically for high-performance WiFi applications operating in the 2.4 GHz to 2.5 GHz ISM band. Some of these applications include personal medial players (PMPs), digital cameras, and WiFi-enabled handsets.

Two of the switch plus LNA front end solutions, the RF5501 and RF5511, address the need for size reduction for a typical IEEE 802.11b/g/n front end design. Featuring an integrated SP3T switch and a low noise amplifier, these flip-chip MMICs also reduce the number of components required outside of the core chipset.

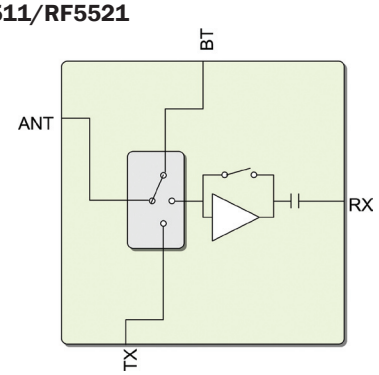
FEATURES

- **Single supply voltage 3.0 V to 4.5 V**
- **Integrated SP3T switch and low noise amplifier**
- **Typical gain is 12 dB and 1.7 dB noise figure in receive mode pin-to-pin**
- **SP3T switch control voltage 2.1 to 5 V (3.0 V typical)**
- **Ideal for 2.5 GHz ISM band, portable battery-powered, and WiFi/*Bluetooth*® combination devices**

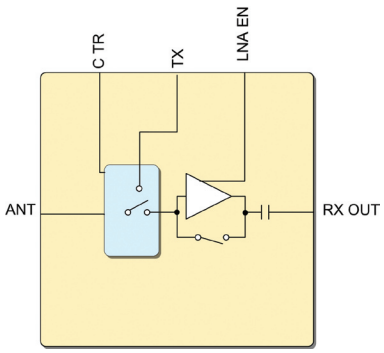
SPECIFICATIONS

Part Number	*Freq Range (MHz)*	*Switch*	*LNA Gain (dB)*	*NF (dB)*	*Switch Insertion Loss (dB)*	*Switch P1dB (dBm)*	*OP1dB (dBm)*	*OIP3 (dBm)*	*IIP3 (dBm)*	*V_{CC} (V)*	*I_{CC} (mA)*	*RF ports DC Blocked*	*Package (dim. in mm)*
RF5501	2400 to 2500	SP3T	11.5	1.9	0.6	29	5	19	7	3.0 to 4.5	9	No	QFN 2.0 x 2.0 x 0.5
RF5511	2400 to 2500	SP3T	11.5	1.8	0.6	29	5	19	7	3.0 to 4.5	9	No	Flip Chip 1.0 x 1.0 x 0.5
RF5521	2400 to 2500	SP3T	11.5	1.9	0.6	29	5	19	7	3.0 to 4.5	9	No	QFN 1.75 x 1.75 x 0.5
RF5611	2400 to 2500	SP3T	11.0	2.2	0.8	29	5	19	7	3.0 to 4.5	9	Yes	QFN 2.0 x 2.0 x 0.5
RF5540	4900 to 5850	SPDT	13.0	2.3	0.8	29	5	19	7	3.0 to 4.5	15	No	QFN 2.0 x 2.0 x 0.5

RF5501/RF5511/RF5521



RF5540



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BR.WiFi-WiMAX-LNA.0510.200

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