

RFMD.

RFLA1018 /RFLA1038

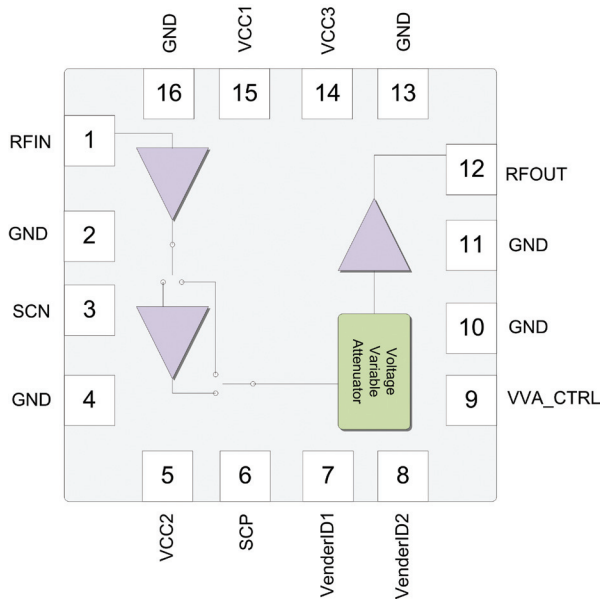
Variable Gain, High Linearity, Low Noise Amplifiers



The RFLA1018 and RFLA1038 from RFMD are a multi-stage, low noise amplifiers (LNA) with variable gain, featuring high linearity and very low noise figure. These LNAs provides over 35dB of dynamic gain range. A noise figure of 0.9dB and an IIP3 of 3.5dBm at maximum gain make these components ideal as infrastructure LNAs. They are packaged in a small 8 x 8mm leadless laminate multichip module, which contains plated through thermal vias for ultra-low thermal resistance. These LNAs are easy to use with no external matching components required.

SPECIFICATIONS

Freq Range (Min) (MHz)	Freq Range (Max) (MHz)	Gain (dB)	Gain Range (dB)	Noise Figure (dB)	OP1dB (dBm)	OIP3 (dBm)	V _{CC} (V)	I _{CC} (mA)	Package (mm)	Part Number
1920	1980	35	35	0.7	25	38	5	290	8 x 8 MCM	RFLA1018
1710	1785	38	35	0.7	24	40	5	290	8 x 8 MCM	RFLA1038



FEATURES

- Footprint compatible versions for each cellular band
- Full internal 50Ω matched
- Analog voltage variable attenuator
- Bypass mode of LNA for high dynamic range
- Max gain = 35dB
- Noise figure less than 1dB
- Gain control range = 35dB
- Output 3dB intercept point greater than 38dBm
- Single +5V supply
- Applications include: Wireless infrastructure LNA, cellular, GSM, PCS, UMTS, LTE, WiMAX, high-performance radio front end

