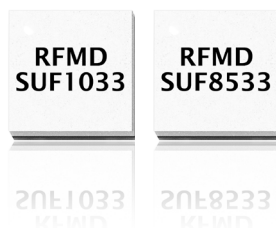


RFMD.

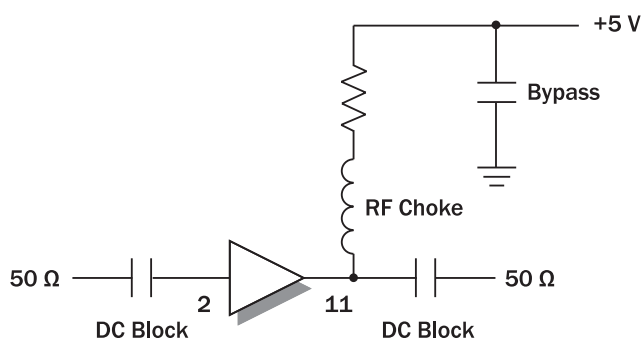
High IP3 Broadband Gain Block Series



RFMD® delivers a series of monolithically matched high IP3 gain blocks covering DC to 20 GHz. Providing excellent broadband performance, these gain blocks have been developed to support a wide array of applications including commercial, military, and space communications as well as test instrumentation. The SUF-1033 and SUF-8533 are pHEMT based amplifiers that use a patented self-bias Darlington topology featuring a gain and temperature compensating active bias network that operates from a single 5V supply, making them ideal in applications such as a RF drivers, LO and IF Mixers, and many others. Each of the gain blocks delivers efficient, cascadable performance in a compact package.

SPECIFICATIONS

Part Number	Freq Range (GHz)	OP1dB (dBm)	OIP3dB (dBm)	Gain (dB)	NF (dB)	Package Size (dim. in mm)
SUF-1033	DC to 20	13.7	24.3	9.5	4.8	QFN-16, 3 x 3
SUF-8533	DC to 12	16.8	25.2	14.5	4.2	QFN-16, 3 x 3



FEATURES

- Broadband performance
- 5V single supply operation
- Low gain variation vs. temperature
- 50 Ω I/O low noise, efficient gain block
- Ideal for broadband communications, test instrumentation, military and space, LO and IF mixer and high IP3 RF driver applications

