

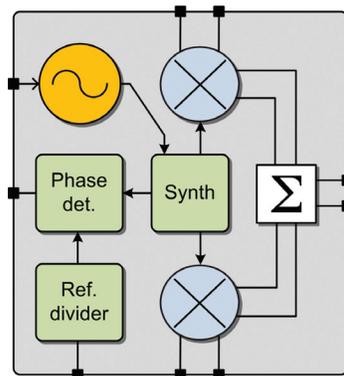


The RFMD2080 and RFMD2081 are extremely broadband devices capable of transmitting from 45MHz to 2700MHz and are suitable for satellite, wireless point-to-point systems, software defined radio, digital repeaters, and other QPSK/QAM modulator applications. The integration of the local oscillator using an advanced fractional-N synthesizer, along with the broadband nature of the components, offer the industry's most competitive combination of functionality, performance, versatility, and size.

The RFMD2081 has a baseband bandwidth of up to 100MHz. The RFMD2080 includes a baseband interface incorporating programmable filtering and gain control, with bandwidth programmable from 2MHz to 10MHz. Each part draws just 150mA from a 3V supply.

### SPECIFICATIONS

RF Freq (Min) (MHz)	RF Freq (Max) (MHz)	OIP3 (dBm)	Broadband Noise Floor (dBm/Hz)	Carrier Suppression (dBc)	Sideband Suppression (dBc)	V <sub>cc</sub> (V)	I <sub>cc</sub> (mA)	Package	Part Number
45	2700	18.0	-150.0	-45	-45	3.0	150	QFN	RFMD2080
45	2700	17.0	-162.0	-40	-45	3.0	135	QFN	RFMD2081



### FEATURES

- RF output frequency range 45MHz to 2700MHz
- Fractional-N synthesizer with 1.5Hz resolution
- Fully integrated wideband VCOs and LO buffers
- -162dBm/Hz modulator noise floor (RFMD2081)
- Programmable baseband gain and filtering (RFMD2080)
- Integrated Phase Noise <0.2° rms at 1GHz
- -40dBc unadjusted carrier suppression
- -45dBc unadjusted sideband suppression
- 5mm<sup>2</sup> QFN Package

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These products comply with RFMD's green packaging standards.

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