



Customer Premise Wi-Fi Equipment Product Portfolio

High-Linearity FEMs, High-Linearity PAs, LNAs & Low-Cost Switches



QORVOTM
all around you

High-Performance Wi-Fi Solutions for Customer Premise Equipment Applications

Qorvo has an expanding portfolio of world-class Customer Premise Equipment (CPE) products for Wi-Fi 802.11 a/b/g/n/ac applications. The Qorvo CPE product portfolio includes high-linearity front-end modules (FEMs), high-linearity power amplifiers (PAs), low-noise amplifiers (LNAs), and low-loss switches. Our high-linearity FEMs integrate the following functions: PA, LNA, switches, band edge filter, co-existence filter, diplexer, harmonic & out of band rejection, impedance matching and drawing elements. These are designed specifically to reduce the time to develop a Wi-Fi system by making it easier to implement onto a PCB design or within a System-in-Package (SiP) module.

Designed to operate in highly linear 802.11ac systems, Qorvo's CPE products offer exceptional EVM across a broad dynamic range. To ensure that linearity is maintained across operating conditions, Qorvo PAs and FEMs exhibit industry-leading EVM under dynamic bias conditions. Dynamic EVM performance is ensured by full 100% RF production testing insuring system performance.

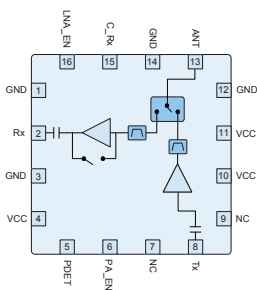
Our latest generation of mid-power FEMs offer a full front-end solution with PA, filter, switch and LNA in the industry-standard 3x3mm footprint with minimal external components.

Qorvo solutions focus on market-leading thermal efficiency, linearity, dynamic bias performance. We remain committed to simplifying and reducing the BOM and cost, while improving our customers' time-to-market. Qorvo's unique position to integrate all front-end components targets highly compact MIMO configurations up to 8x8 systems.

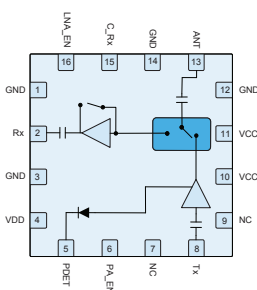
High-Linearity 5GHz Front-End Modules (FEMs)

Freq Range (GHz)	Description	Gain (dB)	Linear P _{OUT} (dB)	EVM (%)	V _{CC} (V)	Current at Po (m/A)	Package Style (dim. in mm)	Part Number
4.9 to 5.85	PA + SPDT + LNA + PDET	27.0	16.0	1.8	3.3	220	3x3 LGA	RFFM4501
			17.0	3.0	3.3	225		
			18.0	1.8	5.0	280		
			21.0	3.0	5.0	290		
4.9 to 5.85	PA + SPDT + LNA + PDET	28.0	17.5	1.5	3.6	210	2.5x2.5x0.40 QFN	RFFM8511
4.9 to 5.85	PA + SPDT + LNA + PDET	29.0	16.0	1.8	3.3	190	2.5x2.5x0.40 QFN	RFFM8505
			19.0	3.0	3.3	210		
4.9 to 5.85	PA + SPDT + LNA + PDET	29.5	17.5	1.8	3.3	260	3x3x1 Laminate	RFFM4503
			20.0		4.2	280		
4.9 to 5.9	PA + SP2T + LNA + Filtering + PDET	30	17	1.8	3.3	260	3x3 Laminate	RFFM4551 NEW
			18	3.0				
4.9 to 5.9	PA + SP2T + LNA + Filtering + PDET	32	20	1.8	5	195	3x3 Laminate	RFFM4552 NEW
			21	3.0				
4.9 to 5.9	PA + SP2T + LNA + Filtering + PDET	32	20	1.8	5	195	2.5x2.5 Laminate	RFFM4558 NEW
			21	3.0				
4.9 to 5.9	PA + SP2T + LNA + Filtering + PDET	29.5	18	1.8	5	260	2.5x2.5 QFN	TQP8080 NEW
			20	3.0				
5.15 to 5.85	PA + SPDT + LNA + PDET	29.0	18.0	1.8	3.3	210	3x3x1 Laminate	RFFM4501F

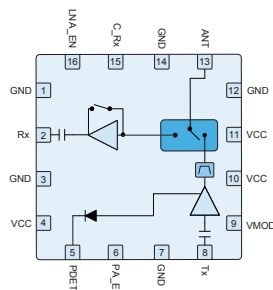
RFFM4558



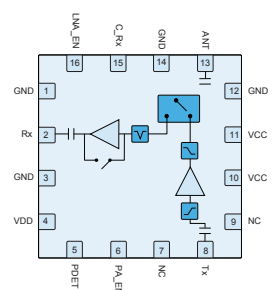
**RFFM4501/RFFM4501F/
RFFM4503**



**RFFM8505/RFFM8511/
TQP8080**



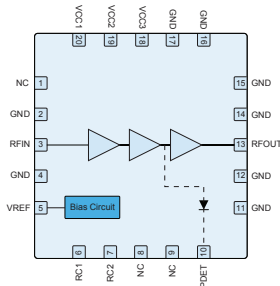
**RFFM4551/
RFFM4552**



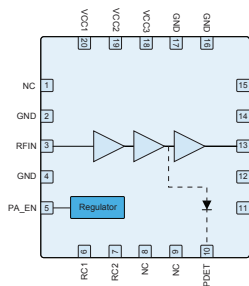
High-Linearity 5GHz Amplifiers

Freq Range (GHz)	Description	Gain (dB)	Linear P _{OUT} (dB)	EVM (%)	V _{CC} (V)	Current at Po (m/A)	Package Style (dim. in mm)	Part Number
4.9 to 5.825	Matched Amplifier	30.0	21.0	1.8	5.0	400	4x4x1 Laminate	RFPA5502
4.9 to 5.85	MMIC Amplifier	35.0	23.0	3.0	5.0	600	4x4 LGA	RF5626
4.9 to 5.85	MMIC Amplifier	18.0	25.0	2.5	5.0	800	6x6 QFN	SZM-5066Z
4.9 to 5.85	PA + Regulator, Filtering, PDET	31.0	23.0	1.8	5.0	315	4x4x1.05 QFN	RFPA5512 NEW
4.9 to 5.9	MMIC Amplifier	33.0	22.0	3.0	5.0	310	4x4 QFN	SZA-5044Z
4.9 to 5.9	Matched Amplifier	9.0	25.5	2.5	5.0	570	DFN-26	RFPA5026
4.9 to 5.9	Matched Amplifier	29.0	18.0	3.0	3.3	200	3x3 QFN	RF5616
			5.0					
4.9 to 5.9	PA + Regulator, Filtering, PDET	33.0	23.0	1.8	5.0	285	4x4 QFN	RFPA5522 NEW
			25.0	3.0				
4.9 to 5.9	PA + Regulator, Filtering, PDET	33.0	23.0	1.8	5.0	285	4x4 QFN	RFPA5542 NEW
			25.0	3.0				
4.9 to 5.95	PA + Regulator, Filtering, PDET	32.0	21.0	1.8	5.0	300	4x4 QFN	TQP5523 NEW
			23.5	3.0				
4.9 to 5.95	PA + Regulator, Filtering, PDET	32.0	25.0	1.8	5.0	650	4x4 QFN	TQP5525 NEW
			26.0	3.0				
4.9 to 6.4	MMIC Amplifier	15.0	10.0	3.0	3.3	52	SOT-363	STA5063Z
4.9 to 8.85	Matched Amplifier	28.0	17.0	3.0	3.3	140	2.2x2.2 QFN	RF5355

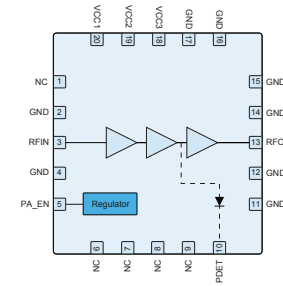
RFPA5512



RFPA5522



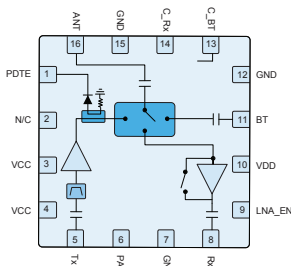
RFPA5542/TQP5523/TQP5525



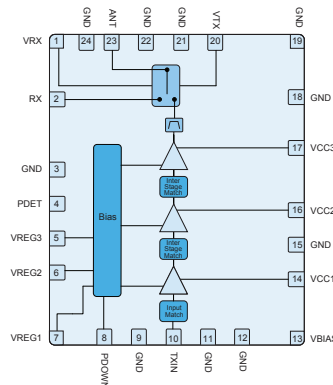
High-Linearity 2.5GHz Front-End Modules (FEMs)

Freq Range (GHz)	Description	Gain (dB)	Linear P _{OUT} (dB)	EVM (%)	V _{CC} (V)	Current at Po (m/A)	Package Style (dim. in mm)	Part Number
2.4 to 2.5	PA + SP3T + LNA + PDET	26.0	18.0	1.3	4.2	145	2.5x2.5x0.4 QFN	RFFM8211
2.4 to 2.5	PA + SP3T + LNA + PDET	26.0	18.0	1.5	4.2	225	2.5x2.5 QFN	RFFM8205
2.4 to 2.5	PA + SP3T + LNA + PDET	26.5	19.5	2.5	3.3	210	3x3 LGA	RFFM4203
			21.5		5.0			
2.4 to 2.5	PA + SPDT + PDET	34.0	25.5	2.5	5.0	435	6x6 LGA	RFFM4200
2.4 to 2.5	PA + SPDT + PDET	34.0	25.5	2.5	5.0	435	6x6 LGA	RFFM4201
2.4 to 2.5	PA + SPDT + PDET	34.0	27.0	2.5	5.0	900	6x6 LGA	RF5605
2.4 to 2.5	PA + SPDT + PDET	34.0	27.5	2.5	5.0	925	6x6 LGA	RFFM4202
2.5 to 2.7	PA + SPDT + PDET	34.0	27.0	2.5	5.0	825	6x6 LGA	RFFM7600

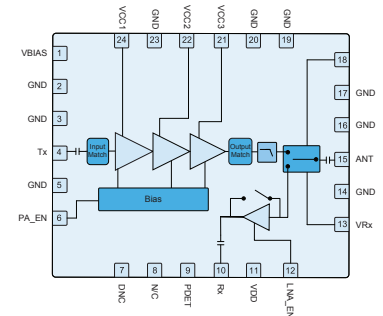
RFFM4203



RFFM4201/RFFM4202



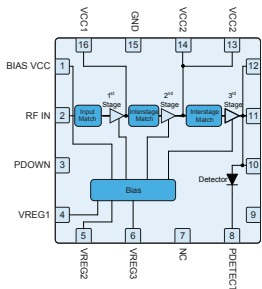
RFFM4204



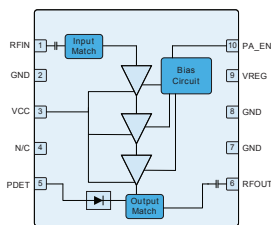
High-Linearity 2.5GHz Amplifiers

Freq Range (GHz)	Description	Gain (dB)	Linear P _{OUT} (dB)	EVM (%)	V _{CC} (V)	Current at Po (mA)	Package Style (dim. in mm)	Part Number
0.9 to 2.7	MMIC Amplifier	20.0	26.0	2.5	5.0	520	4x4 QFN	RF5163
2.0 to 2.7	MMIC Amplifier	25.0	22.0	3.0	5.0	330	4x4 QFN	SZA-2044Z
2.0 to 2.7	MMIC Amplifier	13.5	26.0	2.5	5.0	570	DFN-26	RFPA2226
2.0 to 2.7	MMIC Amplifier	35.0	26.5	2.5	5.0	700	6x6 QFN	SZM-2066Z
2.0 to 2.7	MMIC Amplifier	36.0	27.0	2.5	6.0	724	6x6 QFN	SZM-2166Z
2.3 to 2.7	MMIC Amplifier	28.0	23.0	3.3	5.0	250	3x3 QFN	RF5112
2.3 to 2.7	MMIC Amplifier	34.0	24.0	3.0	3.3	350	3x3 QFN	RF5602
			27.0	2.5	5.0	450		
2.3 to 2.9	MMIC Amplifier	34.0	28.5	2.5	5.0	800	4x4 QFN	RF5632
2.3 to 2.9	MMIC Amplifier	11.0	30.0	3.0	6.0	1300	3x8 QFN	RF5643
2.4 to 2.5	Matched Wi-Fi Amplifier	33.0	27.0	2.5	5.0	480	4x4 LGA	RFPA5200
2.4 to 2.5	Matched Amplifier	40.0	28.0	3.0	5.0	590	4x4x1.05 Laminate	RFPA5208
2.4 to 2.5	Matched Wi-Fi Amplifier	34.0	29.5	2.5	5.0	900	7x7 LGA	RFPA5201E
2.4 to 2.7	MMIC Amplifier	34.0	30.0	2.5	5.0	1450	5x5 QFN	RF5652

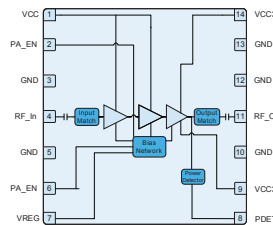
RF5602/RF5623



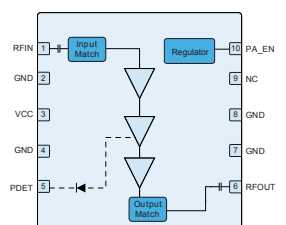
RFPA5200



RFPA5201E



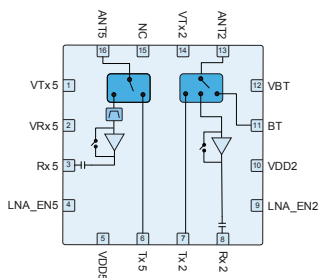
RFPA5208



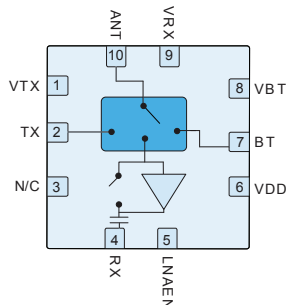
Switches and Switch LNAs

Freq Range (GHz)	Switch	Rx Gain (dB)	Rx NF (dB)	Tx Insertion	Tx Switch P1dB (dBm)	Rx OP1d (dBm)	Rx OP3 (dBm)	Rx IIP3 (dBm)	V (V)	I (mA)	RF Ports DC-Blocked	Package Style (dim. in mm)	Part Number
0.005 to 6.5	SP2T	-	-	29.0	40.0	-	-	-	2.5 to 5.0	-	-	2x2x0.55 QFN	RFSW8000
2400 to 2500	SP3T	12.0	2.0	0.6	28	8	18	6	3.0 to 4.5	7	No	1.75x1.75x0.5 QFN	RF5521
2400 to 2500	SP3T	11.0	2.0	0.8	28	5	16	4	3.0 to 4.5	7	No	2x2x0.5 QFN	RF5501
2400 to 2500	SP3T	13.0	2.3	0.5	30	8	18	5	3.6	7	No	1.75x1.75x0.33 QFN	RFFM8250
2400 to 2500	SP3T	13.0	2.3	0.5	30	8	18	5	3.6	7	No	2.3x2.3x0.33 QFN	RFRM8850
4900 to 5850	SP2T	12.0	2.5										
4900 to 5850	SP2T	16.0	2.4	1.0	30	9	19	3	2.7 to 4.8	15	No	2x2x0.5 QFN	RF5540
4900 to 5850	SP2T	12.0	2.5	0.5	30	7	17	5	3.6	10	No	1.5x1.5x0.4 QFN	RFFM8550
4900 to 5850	SP2T	16.0	2.4	1.0	31	7	19	3	2.7 to 4.2	17	No	2x2x0.5 QFN	RFFM5541
5150 to 5850	SPDT	12.0	2.5	1.0	29	2	12	-	3.3	13	Yes	3x3 MOD	RFFM4550
5150 to 5875	SPDT	13.0	2.5	0.6	>30	43	16	3	5	8	No	2.5x2.5 QFN	TQL1600

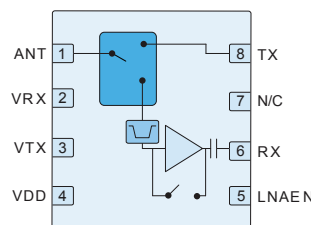
RFFM8850



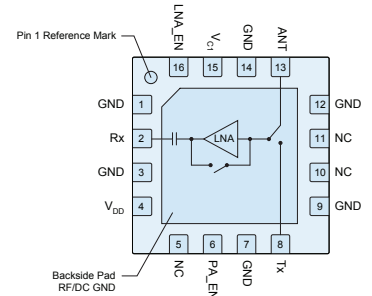
RFFM8250



RFFM8550



TQL1600



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