

# RFMD®

Market-Leading Technology Portfolio, with MMICs,  
Hybrids, Passives and More

# Portfolio of leading RF components enabling high data rate broadband connectivity.

RFMD® addresses the Wired Broadband industry’s challenges with a portfolio of components that enable leading performance through the use of advanced semiconductor and integration technologies. Our extensive portfolio breadth and performance allow our customers to achieve higher data rates at competitive costs.



## PRODUCTS BY FUNCTION

<b>Integrated Synthesizers with Mixers</b> .....	<b>3</b>	<b>≥1GHz Push-Pull Hybrid Amplifiers</b> .....	<b>7</b>
<b>Direct Quadrature Modulators</b> .....	<b>3</b>	<b>870MHz Push-Pull Hybrid Amplifiers</b> .....	<b>7</b>
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## BROADBAND APPLICATION DIAGRAMS

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ISO 9001: 2000 Certified  
ISO 14001: 2004 Certified

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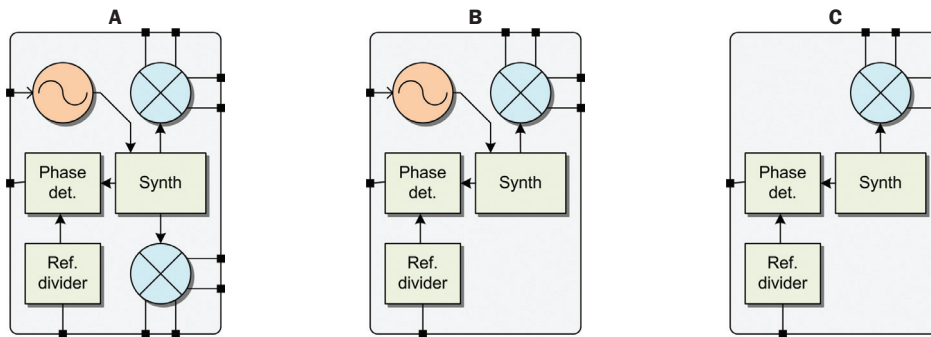
## Integrated Synthesizers with Mixers

- Single-placement wideband frequency conversion
- Programmable linearity mixers for power saving
- Fractional-N PLL for flexibility and optimum spur performance



Table 1

	Block Diagram (see below)	Mixer RF/IF Freq (Min) (MHz)	Mixer RF/IF Freq (Max) (MHz)	LO Freq Range (Min) (MHz)	LO Freq Range (Max) (MHz)	Phase Noise at 2GHz (1kHz) (10kHz)		Mixer Conversion Gain (dB)	Mixer IIP3 (dBm)	I <sub>cc</sub> (mA)	Package	Part Number
	A	30	2500	300	2400	-85	-90	-2.0	18.0	65	QFN-32	RF2051
	B	30	2500	300	2400	-85	-90	-2.0	18.0	65	QFN-32	RF2052
	C	30	2500	300	2400	-85	-90	-2.0	23.0	60	QFN-32	RF2053
	A	30	500	50	500	—	—	-2.0	25.0	55	QFN-32	RF2056
	A	30	2500	1900	2400	-85	-90	-2.0	18.0	65	QFN-32	RF2057
	A	30	2500	1550	2050	-85	-90	-2.0	18.0	65	QFN-32	RF2059
NEW	A	30	2700	85	2700	-95	-102	-2.0	23.0	120	QFN-32	RFFC2071
NEW	B	30	2700	85	2700	-95	-102	-2.0	23.0	120	QFN-32	RFFC2072
NEW	A	30	6000	85	4200	-95	-102	-2.0	23.0	125	QFN-32	RFFC5071
NEW	B	30	6000	85	4200	-95	-102	-2.0	23.0	125	QFN-32	RFFC5072



## Direct Quadrature Modulators

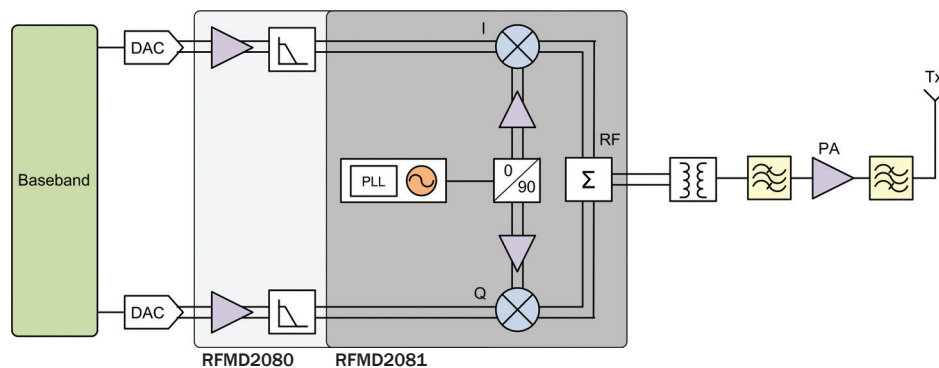
- High linearity
- Low noise floor
- Low current

Table 2

	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
NEW	45	2700	18.0	-150.0	-45	-45	3.0	150	QFN	RFMD2080*♦
NEW	45	2700	17.0	-162.0	-40	-45	3.0	135	QFN	RFMD2081*

\* With integrated wideband fractional-N PLL/VCO

♦ With integrated baseband interface including baseband input biasing, baseband filtering, and gain control



## Couplers

- High directivity
- Low insertion loss
- Excellent return loss and coupling flatness

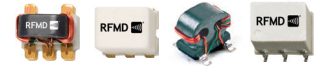


Table 2

Characteristic Impedance (Ω)	Freq Range (Min) (MHz)	Freq Range (Max) (MHz)	Nominal Coupling (dB)	Coupling Flatness (dB)	Mainline Loss (dB)	Directivity (dB)	Return Loss (Min) (dB)	Package	Part Number
50	5	500	10.0 ±0.5	±0.5	0.8	30.0	15.0	S06	CPA-0501-510H
50	5	1000	10.0 ±0.5	±0.5	1.2	25.0	14.0	S06	CPA-1001-510H
50	5	1000	6.5 ±0.5	±0.5	1.9	15.0	12.0	S06	CPA-1001-56H
75	5	1000	8.5 ±0.3	±0.5	1.7	20.0	14.0	S06	CPA-1001-708H
75	5	1000	10.0 ±0.5	±0.5	1.2	14.0	14.0	S06	CPA-1001-710H
75	5	1000	16.0 ±0.5	±0.5	0.6	30.0	14.0	S06	CPA-1001-716H
75	5	1000	20.5 ±0.5	±0.7	0.4	20.0	17.0	S06	CPA-1001-720H
75	5	1000	10.0 ±0.5	±0.5	1.2	25.0	14.0	S01	CPK-1001-710H
75	5	1000	16.0 ±0.5	±0.5	0.6	30.0	14.0	S01	CPK-1001-716H
75	5	1000	20.5 ±0.5	±0.5	0.4	20.0	17.0	S01	CPK-1001-720H
75	5	1200	10.0 ±0.5	±0.5	1.5	14.0	11.0	S18	RFSP5742
75	5	1200	10.0 ±0.5	±0.5	1.5	14.0	14.0	S20	RFSP5743
75	5	1200	16.0 ±0.5	±0.5	0.6	20.0	14.0	S18	RFSP5762
75	5	1200	16.0 ±0.5	±0.5	0.8	20.0	14.0	S20	RFSP5763

## 2-Way Splitters

- High isolation, low insertion loss
- Excellent phase and amplitude balance
- Superior return loss



Table 3

Characteristic Impedance (Ω)	Freq Range (Min) (MHz)	Freq Range (Max) (MHz)	Return Loss (Min) (dB)	Isolation (dB)	Insertion Loss (dB)	Package	Part Number
50	1	500	14.0	25.0	0.4	S06	SPA-0501-25H
50	1	650	14.0	25.0	0.4	S06	SPA-0701-25H
50	5	1000	9.6	16.0	0.4	S06	SPA-1002-25H
50	5	1200	14.0	22.0	1.0	S18	RFSP5522
50	800	980	17.7	23.0	0.2	S06	SPA-1001-25H
50	1600	2000	11.0	18.0	0.4	S10	SPC-2001-25H
50	1700	2500	9.6	24.0	0.5	S06	SPA-2501-25H
50	1800	2200	11.0	23.0	0.5	S10	SPC-2201-25H
75	5	65	20.0	35.0	0.2	S06	SPA-0101-27H
75	5	1000	17.7	30.0	0.5	S06	SPA-1002-27H
75	30	1000	20.0	30.0	0.5	S06	SPA-1003-27H
75	5	1200	12.0	28.0	0.8	S18	RFSP5722

## 3-Way Splitters

- High isolation, low insertion loss
- Excellent phase and amplitude balance



Table 4

Characteristic Impedance (Ω)	Freq Range (Min) (MHz)	Freq Range (Max) (MHz)	Return Loss (Min) (dB)	Isolation (dB)	Insertion Loss (dB)	Package	Part Number
75	5	200	21.0	30.0	0.35	S04	RFSP2731
75	20	1200	14.0	25.0	1.5	S04	RFSP5731

## Transformers

- Variety of impedance ratios and wiring configurations
- Low insertion loss and good balance
- Usable in 50Ω and 75Ω applications



Table 5

	Type	Impedance Ratio	Freq Range (Min) (MHz)	Freq Range (Max) (MHz)	Package	Part Number
<b>NEW</b>	Unbalanced to Balanced	1:1	0.3	200	S20	RFXF2513
<b>NEW</b>	Unbalanced to Balanced	1:2	2.0	350	S20	RFXF2533
<b>NEW</b>	Unbalanced to Balanced	1:4	1.0	350	S20	RFXF2553
	Unbalanced to Balanced	1:1	5.0	200	S20	RFXF2713
<b>NEW</b>	Unbalanced to Balanced	1:4	2.0	1000	S20	RFXF3553
<b>NEW</b>	Unbalanced to Balanced	1:1	5.0	1000	S20	RFXF4513
	Unbalanced to Balanced	1:1	5.0	1200	S18	RFXF5702
	Unbalanced to Balanced	1:1	5.0	1200	S20	RFXF5703
	Unbalanced to Balanced	1:1	5.0	1200	S21	RFXF5704
	Unbalanced to Balanced	1:1	5.0	1200	S18	RFXF5712
	Unbalanced to Balanced	1:4	5.0	1200	S20	RFXF5753
	Unbalanced to Balanced	1:1	5.0	1200	S18	RFXF5792
	Unbalanced to Balanced	1:1	5.0	1200	S20	RFXF5793
	Unbalanced to Balanced	1:1	5.0	1200	S21	RFXF5794
	Unbalanced to Balanced	1:4	10.0	1900	S20	RFXF6553
	Unbalanced to Balanced	1:4	500	2500	S20	RFXF8553
	Unbalanced to Balanced	1:1	3.0	3000	S20	RFXF9503
	Unbalanced to Balanced	1:1	5.0	3000	S21	RFXF9504
	Unbalanced to Unbalanced	1:16	0.165	75	S06	XFA-0101-16UH
	Balanced to Balanced	1:1	0.008	100	S06	XFA-0101-1BH
	Unbalanced to Unbalanced	1:2.5	0.011	100	S06	XFA-0101-25UH
	Unbalanced to Balanced	1:1	0.006	150	S06	XFA-0201-1WH
	Unbalanced to Balanced	1:8	0.05	125	S06	XFA-0201-8WH
	Unbalanced to Balanced	1:1	0.05	300	S06	XFA-0301-1WH
	Balanced to Balanced	1:4	0.1	240	S06	XFA-0301-4BH
	Unbalanced to Unbalanced	1:4	0.05	220	S06	XFA-0301-4UH
	Unbalanced to Unbalanced	1:1	1.0	400	S06	XFA-0401-1UH
	Unbalanced to Unbalanced	1:1	40.0	1000	S06	XFA-1001-1UH
	Unbalanced to Balanced	1:16	13.0	200	S01	XFK-0201-16WH
	Unbalanced to Balanced	1:4	8.0	900	S01	XFK-0901-4WH
	Unbalanced to Unbalanced	1:1	40.0	1000	S01	XFK-1001-1UH
	Unbalanced to Unbalanced	1:1	2.5	2000	S01	XFK-2001-1UH
	Unbalanced to Balanced	1:1	3.0	200	S03	XFM-0201-1WH
	Unbalanced to Balanced	1:4	3.5	700	S03	XFM-0701-4WH
	Unbalanced to Unbalanced	1:1	15.0	1003	S03	XFM-1001-1UH
	Unbalanced to Balanced	1:4	1.0	1000	S03	XFM-1001-4WH
	Unbalanced to Unbalanced	1:1	40.0	1000	S03	XFM-1002-1UH
	Unbalanced to Unbalanced	1:1	800	1900	S03	XFM-1901-1UH
	Unbalanced to Balanced	1:4	500	2500	S03	XFM-2501-4WH
	Unbalanced to Unbalanced	1:1	5.0	3000	S03	XFM-3001-1UH
	Unbalanced to Unbalanced	1:1	5.0	1000	S09	XFP-1001-1UH
	Unbalanced to Balanced	1:4	5.0	1000	S09	XFP-1001-4WH
	Unbalanced to Balanced	1:1	1.0	2500	S09	XFP-2501-1UH
<b>NEW</b>	Unbalanced to Balanced	1:16	5.0	40	S20	RFXF0573
<b>NEW</b>	Unbalanced to Balanced	1:4	5.0	1200	S20	RFXF5553
<b>NEW</b>	Unbalanced to Balanced	1:1.78	5.0	200	S19	RFXF2795
<b>NEW</b>	Unbalanced to Balanced	1:1	0.4	500	S20	RFXF3513
<b>NEW</b>	Unbalanced to Balanced	1:3	5.0	1200	S20	RFXF5743

## ≥1GHz Power Doublers

- High output and low current products featuring GaN technology
- Extremely low distortion and superior return loss
- Industry standard SOT-115J package



Table 6

	Freq Range (Min) (MHz)	Freq Range (Max) (MHz)	Minimum Power Gain (dB at Max Freq)	Current (Max) (mA)	NF (Typ) (dB)	CTB** (Typ) (dBc)	CSO** (Typ) (dBc)	Part Number
	40	1003	19.0	375	5.5	-64	-65	D10040180GT
	40	1003	19.0	440	5.5	-65	-67	D10040180GTH
	40	1003	20.0	375	5.5	-64	-65	D10040200GT
	40	1003	20.0	440	5.5	-65	-67	D10040200GTH
	40	1003	20.0	380	3.0	-70	-71	D10040200PL1*
	40	1003	20.0	450	3.0	-77	-71	D10040200PH1*
	40	1003	22.5	375	5.5	-64	-65	D10040220GT
	40	1003	22.5	440	5.5	-65	-67	D10040220GTH
	40	1003	22.5	380	3.0	-70	-71	D10040230PL1*
	40	1003	22.5	450	3.0	-77	-71	D10040230PH1*
	40	1200	22.5	450	3.5	-77	-71	RFPD2580*
	40	1003	23.0	450	3.5	-78	-71	RFPD2650*
	40	1003	24.0	375	5.0	-64	-65	D10040240GT
	40	1003	24.0	440	5.0	-65	-67	D10040240GTH
	40	1003	24.5	375	5.0	-64	-65	D10040250GT
	40	1003	24.5	440	5.0	-65	-67	D10040250GTH
	40	1003	25.0	450	3.0	-77	-71	RFPD2710*
	40	1003	27.0	325	4.5	-61	-63	D10040270GTL
	40	1003	27.0	375	4.5	-64	-65	D10040270GT
	40	1003	27.0	440	4.5	-65	-67	D10040270GTH
	40	1003	30.5	440	4.5	-65	-65	D10040300GTH
<b>NEW</b>	40	1003	25.0	450	3.0	-77	-71	RFPD2930*
<b>NEW</b>	40	1003	23.0	440	5.0	-75	-70	RFPD2660*
<b>NEW</b>	40	1003	25.0	440	5.0	-75	-70	RFPD2670*
<b>NEW</b>	40	1003	23.0	450	3.0	-77	-71	RFCM2680*

\* Uses GaN technology for outstanding linearity

\*\* Refer to individual data sheet for test conditions

## 870MHz Power Doublers

- Extremely low distortion
- Superior return loss
- Industry standard SOT-115J package



Table 7

	Freq Range (Min) (MHz)	Freq Range (Max) (MHz)	Minimum Power Gain (dB at Max Freq)	Current (Max) (mA)	NF (Typ) (dB)	CTB** (Typ) (dBc)	CSO** (Typ) (dBc)	Part Number
	40	870	18.5	375	5.5	-60	-63	D8740180GT
	40	870	18.5	440	5.5	-68	-70	D8740180GTH
	40	870	20.5	375	5.5	-62	-65	D8740200GT
	40	870	20.5	440	5.5	-68	-70	D8740200GTH
	40	870	22.0	375	5.5	-62	-65	D8740220GT
	40	870	22.0	440	5.5	-66	-70	D8740220GTH
	40	870	24.0	375	5.0	-60	-63	D8740240GT
	40	870	24.0	440	5.0	-66	-70	D8740240GTH
	40	870	25.0	375	5.0	-60	-63	D8740250GT
	40	870	25.0	440	5.0	-66	-70	D8740250GTH
	40	870	27.0	375	3.5	-60	-63	D8740270GT
	40	870	27.0	440	3.5	-66	-68	D8740270GTH
	40	870	30.5	440	3.5	-65	-65	D8740300GTH
	40	870	32.0	375	3.5	-60	-63	D8740320GT
	40	870	32.0	440	3.5	-66	-65	D8740320GTH

\*\* Refer to individual data sheet for test conditions

## ≥1GHz Push-Pull Hybrid Amplifiers

- Extremely low distortion
- Superior return loss
- Industry standard SOT-115J package



Table 8

	Freq Range (Min) (MHz)	Freq Range (Max) (MHz)	Minimum Power Gain (dB at Max Freq)	Current (Max) (mA)	NF (Typ) (dB)	CTB** (Typ) (dBc)	CSO** (Typ) (dBc)	Part Number
	40	1003	14.0	260	4.5	-64	-64	S10040140P1
	40	1003	18.0	260	3.0	-68	-68	S10040180P1
	40	1003	20.0	260	4.0	-60	-62	S10040200P
	40	1003	22.0	270	2.5	-66	-66	S10040220P
	40	1003	23.0	240	4.5	-63	-59	S10040220GT
	40	1003	23.5	250	5.0	-63	-59	S10040230GT
	40	1003	24.0	255	2.5	-66	-66	S10040240P
	40	1003	28.0	260	4.5	-65	-63	S10040280GT
	40	1003	34.5	280	4.0	-66	-65	S10040340
	40	1200	23.0	240	5.5	-64	-70	RFPP2590
<b>NEW</b>	40	1003	28.5	270	4.5	-68	-75	RFPP2870*
<b>NEW</b>	40	1003	27.0	420	4.0	-67	-70	RFAM2790

\* Uses GaN technology for outstanding linearity  
 \*\* Refer to individual data sheet for test conditions

## 870MHz Push-Pull Hybrid Amplifiers

- Extremely low distortion
- Superior return loss
- Industry standard SOT-115J package



Table 9

	Freq Range (Min) (MHz)	Freq Range (Max) (MHz)	Minimum Power Gain (dB at Max Freq)	Current (Max) (mA)	NF (Typ) (dB)	CTB** (Typ) (dBc)	CSO** (Typ) (dBc)	Part Number
	40	870	18.5	240	5.0	-65	-65	S8740190
	40	870	18.7	240	6.3	-57	-58	S8740180GT
	40	870	20.0	260	4.0	-57	-62	S8740200P
	40	870	22.0	255	2.5	-66	-66	S8740220P
	40	870	22.7	240	4.6	-57	-58	S8740220GT
	40	870	23.5	255	2.5	-66	-66	S8740240P
	40	870	23.5	450	2.5	-66	-67	S8740240P12*
	40	870	24.2	240	5.0	-57	-58	S8740240GT
	40	870	26.0	240	5.0	-62	-59	S8740260GT
	40	870	28.0	260	4.5	-65	-63	S8740280GT
	40	870	34.5	280	4.0	-66	-65	S8740340
	40	870	34.5	300	2.5	-66	-65	S8740340PT

\* Refers to 12V supply  
 \*\* Refer to individual data sheet for test conditions

## Reverse Path Hybrid Amplifiers

- Extremely low distortion
- Superior return loss
- Industry standard SOT-115J package



Table 10

	Freq Range (Min) (MHz)	Freq Range (Max) (MHz)	Minimum Power Gain (dB at Max Freq)	Current (Max) (mA)	NF (Max) (dB)	Package	Part Number
	5	65	24.3	140	2.3	SOT-115J	R0605250L
	5	65	24.7	200	2.3	SOT-115J	R0605250
	5	65	29.3	140	1.8	SOT-115J	R0605300L
	5	65	29.3	200	2.0	SOT-115J	R0605300
	5	65	40.0	160	4.0	SOT-115J	R0605400L
	5	100	24.6	140	2.7	SOT-115J	R1005250L
	5	100	29.3	140	2.3	SOT-115J	R1005300L
<b>NEW</b>	5	100	38.0	160	3.8	SOT-115J	RFRP2920
	5	200	19.5	360	2.2	SOT-115J	R2005200P12*
	5	200	23.5	360	1.8	SOT-115J	R2005240P12*
	5	200	23.7	235	2.7	SOT-115J	R2005240
	5	200	27.3	140	2.3	SOT-115J	R2005280L
	5	200	29.3	140	2.3	SOT-115J	R2005300L
	5	200	34.5	160	2.3	SOT-115J	R2005350L
	5	300	24.2	140	2.3	SOT-115J	R3005250L
	5	300	29.1	160	5.0	SOT-115J	R3005300L

\* Refers to 12V supply

## Optical Receivers (Forward Path)

- Extremely low distortion and superior return loss
- Low EINC
- Industry standard SOT-115J package



Table 11

	Freq Range (Min) (MHz)	Freq Range (Max) (MHz)	Current (Max) (mA)	EINC (pA/√(Hz))	Part Number
	40	870	225	7.5 (40 to 750MHz), 8.0 (750 to 870MHz)	OS8740230W
	40	1000	255	7.5 (40 to 1000MHz)	OS10040280GW
	40	1000	260	5.0 (40 to 400MHz), 5.5 (400 to 1000MHz)	OS10040320PW
	40	1200	260	5.0 (50 to 400MHz), 5.5 (400 to 1000MHz), 6.3 (1000 to 1200MHz)	RFOS6012
	40	1200	260	5.0 (50 to 400MHz), 5.5 (400 to 1000MHz), 6.3 (1000 to 1200MHz)	RFOS6013

## Optical Receivers (Reverse Path)

- Extremely low distortion and superior return loss
- Low EINC
- Industry standard SOT-115J package



Table 12

	Freq Range (Min) (MHz)	Freq Range (Max) (MHz)	Current (Max) (mA)	EINC (pA/√(Hz))	Part Number
	5	300	190	7.5 (10MHz to 300MHz)	OR3005230W
	5	85	105	2.2 (5MHz to 85MHz)	RFOS5012
	5	85	105	2.2 (5MHz to 85MHz)	RFOS5013

## CATV 75Ω Push-Pull Amplifier ICs

- Push-pull topology for excellent CSO
- 12V amplification performance at 5V supply voltage
- Positive gain slope available on some models



Table 13

	Freq Range (Min) (MHz)	Freq Range (Max) (MHz)	Gain (dB)	NF (dB)	OP1dB (dBm)	OIP3 (dBm)	CTB* (dBc)	CSO* (dBc)	V <sub>CC</sub> (V)	I <sub>CC</sub> (mA)	Package	Part Number
	5	120	25.0	3.0	25.0	37.5	60	80	12.0	138	SOIC-8	CGR-0118Z
	5	210	17.0	4.0	24.0	42.0	67	80	5.0	217	ESOP-8	CGR-0218Z
	5	900	12.5	4.5	20.0	38.0	68	70	8.0	150	ESOP-8	CGA-3318Z
	48	1002	15.0	4.5	20.0	37.0	70	77	5.0	150	ESOP-8	CGA-1518Z
	48	1002	17.0	4.0	23.0	41.0	78	80	5.0	215	ESOP-8	CGA-7718Z
	50	1000	13.8	5.3	21.0	40.0	70	81	8.0	150	ESOP-8	CGA-6618Z
<b>NEW</b>	40	1008	28.0	4.3	20.0	39.0	74	82	5.0	420	8x8mm	RFCM0030**
<b>NEW</b>	40	1008	17.0	2.0	26.0	37.0	70	72	7.0	220	ESOP-8	RFCA8818**

\* Channel Loading:

- CGR: 50dBmV, 7 channels, flat

- CGA: 34dBmV, 79 channels, flat

\*\*Channel Loading: 34dBmV, 79 channels, flat

## CATV 75Ω Single-Ended Linear Amplifiers

- Excellent linearity
- Low power consumption
- Small footprint



Table 14

	Freq Range (Min) (MHz)	Freq Range (Max) (MHz)	Gain (dB)	NF (dB)	OP1dB (dBm)	OIP3 (dBm)	V <sub>CC</sub> (V)	I <sub>CC</sub> (mA)	Package	Part Number
	DC	2500	16.0	4.2	18.5	30.0	9.0	100	SOIC-8	RF2312
	DC	3000	15.0	5.3	22.0	38.0	10.0	180	CJ2BAT0	RF2317
	48	1000	16.0	3.5	18.0	35.0	5.0	80	SOT-89	CGB-1089Z
	48	1002	16.3	3.0	18.5	36.0	5.0	110	SOT-89	RF2389
	50	1200	13.0	3.0	18.5	38.5	5.0	110	SOT-89	CXE-1089Z
<b>NEW</b>	40	1008	20.5	3.3	19.0	38.0	5.0	125	SOT-89	RFCA3302

## 75 Ω Low Noise Amplifier

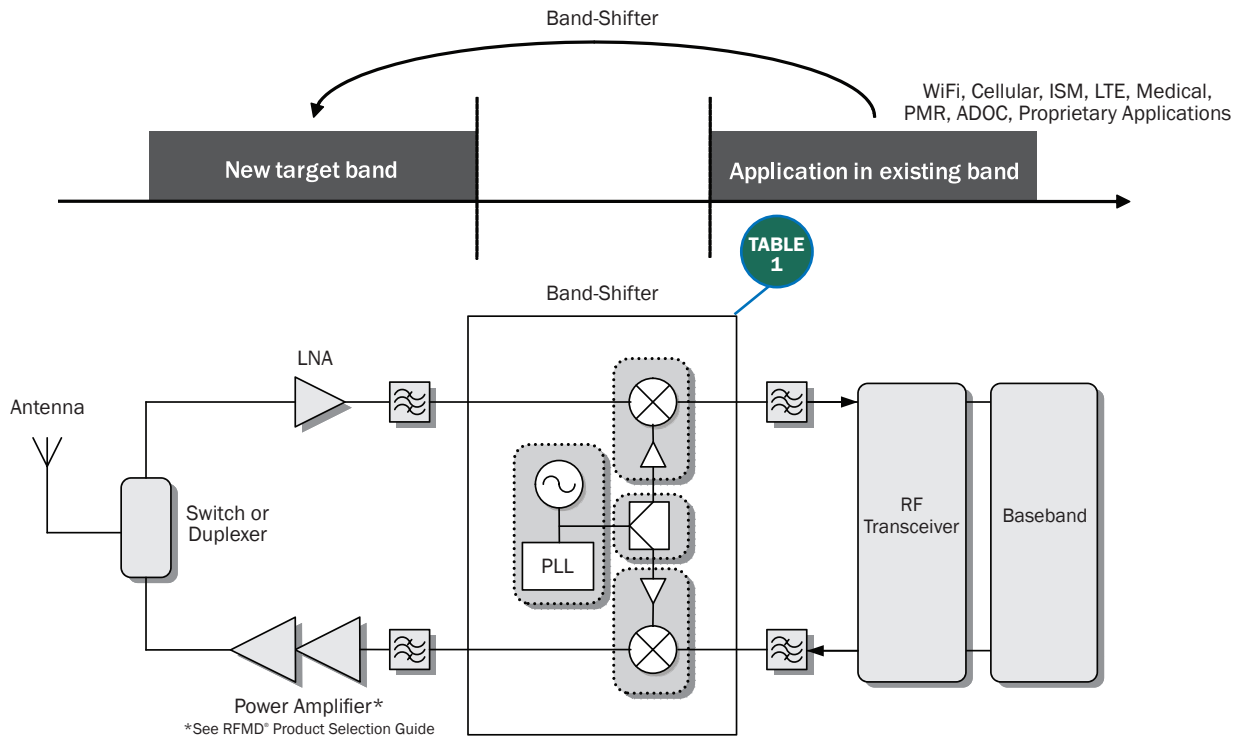
- Excellent linearity
- Low noise figure
- Small footprint

Table 15

	Freq Range (Min) (MHz)	Freq Range (Max) (MHz)	Gain (dB)	NF (dB)	OP1dB (dBm)	OIP3 (dBm)	V <sub>CC</sub> (V)	I <sub>CC</sub> (mA)	Package (mm)	Part Number
	5	1500	20.5	1.5	24.0	39.0	5.0 to 9.0	110	QFN 3.0 x 3.0	RF3827
	5	1500	20.5	1.5	24.0	39.0	5.0 to 9.0	110	SOT-89	CXE-2089Z
	48	1000	17.5	1.2	1.3	17.5	2.7 to 3.3	20	QFN 2.0 x 2.0	CXE-2022Z
<b>NEW</b>	40	1008	17.0	2.0	26.0	37.0	7.0	220	ESOP-8*	RFCA8818

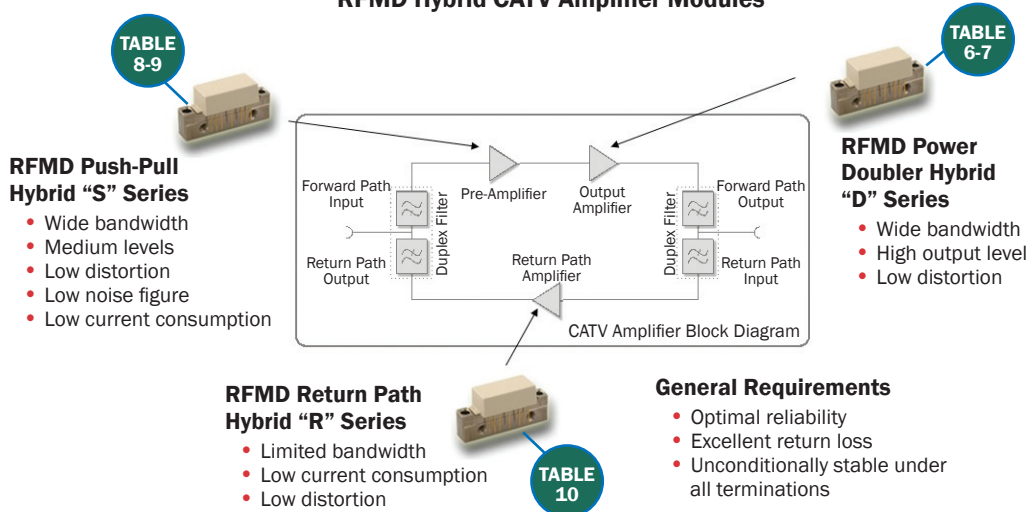
\* Push-pull amplifier

# Band-Shifter



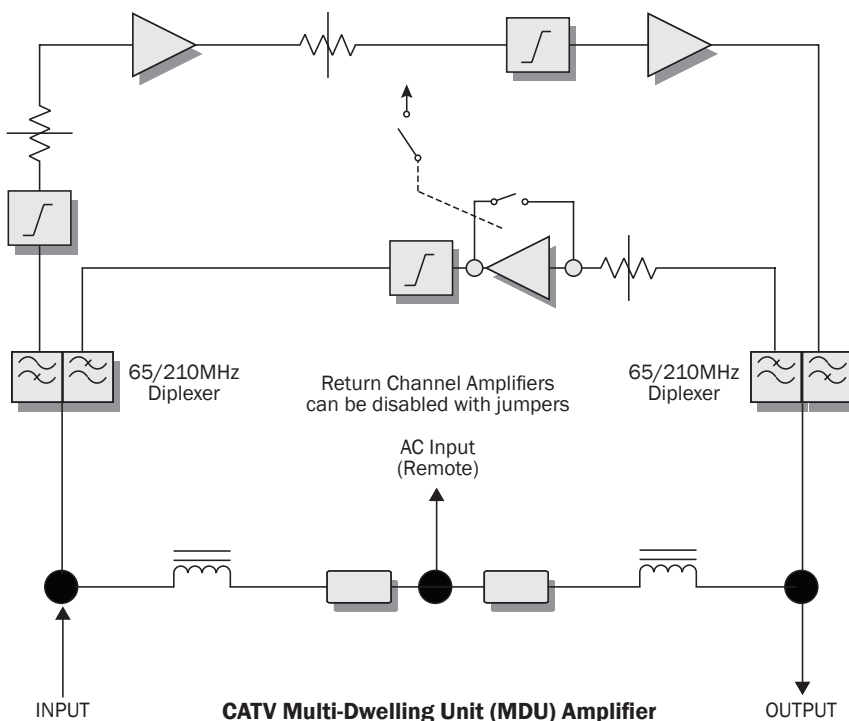
# CATV Transmission

**CATV Line Extender Amplifier Block Diagram Using RFMD Hybrid CATV Amplifier Modules**



# Broadband Customer Premise Equipment (CPE)

See tables 2-5 for passive components and 13-15 for MMIC amplifiers.



## PART NUMBER INDEX

P/N	Pg. #	P/N	Pg. #	P/N	Pg. #	P/N	Pg. #	P/N	Pg. #
CGA-1518Z	9	D8740180GT	6	RF2056	3	RFXF2713	5	S8740340	7
CGA-3318Z	9	D8740180GTH	6	RF2057	3	RFXF2795	5	S8740340PT	7
CGA-6618Z	9	D8740200GT	6	RF2059	3	RFXF3513	5	SPA-0101-27H	4
CGA-7718Z	9	D8740200GTH	6	RF2312	9	RFXF3553	5	SPA-0501-25H	4
CGB-1089Z	9	D8740220GT	6	RF2317	9	RFXF4513	5	SPA-0701-25H	4
CGR-0118Z	9	D8740220GTH	6	RF2389	9	RFXF5553	5	SPA-1001-25H	4
CGR-0218Z	9	D8740240GT	6	RF3827	9	RFXF5702	5	SPA-1002-25H	4
CPA-0501-510H	4	D8740240GTH	6	RFAM2790	7	RFXF5703	5	SPA-1002-27H	4
CPA-1001-510H	4	D8740250GT	6	RFCM2680	6	RFXF5704	5	SPA-1003-27H	4
CPA-1001-56H	4	D8740250GTH	6	RFCP5742	4	RFXF5712	5	SPA-2501-25H	4
CPA-1001-708H	4	D8740270GT	6	RFCP5743	4	RFXF5743	5	SPC-2001-25H	4
CPA-1001-710H	4	D8740270GTH	6	RFCP5762	4	RFXF5753	5	SPC-2201-25H	4
CPA-1001-716H	4	D8740300GT	6	RFCP5763	4	RFXF5792	5	XFA-0101-16UH	5
CPA-1001-720H	4	D8740320GT	6	RFFC2071	3	RFXF5793	5	XFA-0101-1BH	5
CPK-1001-710H	4	D8740320GTH	6	RFFC2072	3	RFXF5794	5	XFA-0101-25UH	5
CPK-1001-716H	4	OR3005230W	8	RFFC5071	3	RFXF6553	5	XFA-0201-1WH	5
CPK-1001-720H	4	OS10040280GW	8	RFFC5072	3	RFXF8553	5	XFA-0201-8WH	5
CXE-1089Z	9	OS10040320PW	8	RFMD2080	3	RFXF9503	5	XFA-0301-1WH	5
CXE-2022Z	9	OS8740230W	8	RFMD2081	3	RFXF9504	5	XFA-0301-4BH	5
CXE-2089Z	9	R0605250	8	RFS06012	8	S10040140P1	7	XFA-0301-4UH	5
D10040180GT	6	R0605250L	8	RFS06013	8	S10040180P1	7	XFA-0401-1UH	5
D10040180GTH	6	R0605300	8	RFPD2580	6	S10040200P	7	XFA-1001-1UH	5
D10040200GT	6	R0605300L	8	RFPD2650	6	S10040220GT	7	XFK-0201-16WH	5
D10040200GTH	6	R0605400L	8	RFPD2660	6	S10040220P	7	XFK-0901-4WH	5
D10040200PH1	6	R1005250L	8	RFPD2670	6	S10040230GT	7	XFK-1001-1UH	5
D10040200PL1	6	R1005300L	8	RFPD2710	6	S10040240P	7	XFK-2001-1UH	5
D10040220GT	6	R2005200P12	8	RFPD2930	6	S10040280GT	7	XFM-0201-1WH	5
D10040220GTH	6	R2005240	8	RFPD2950	7	S10040340	7	XFM-0701-4WH	5
D10040230PH1	6	R2005240P12	8	RFPD2870	7	S8740180GT	7	XFM-1001-1UH	5
D10040230PL1	6	R2005280L	8	RFRP2920	8	S8740190	7	XFM-1001-4WH	5
D10040240GT	6	R2005300L	8	RFS02731	4	S8740200P	7	XFM-1002-1UH	5
D10040240GTH	6	R2005350L	8	RFS05522	4	S8740220GT	7	XFM-1901-1UH	5
D10040250GT	6	R3005250L	8	RFS05722	4	S8740220P	7	XFM-2501-4WH	5
D10040250GTH	6	R3005300L	8	RFS05731	4	S8740240GT	7	XFM-3001-1UH	5
D10040270GT	6	R3005300L	8	RFX0501X	8	S8740240P	7	XFP-1001-1UH	5
D10040270GTH	6	RF2051	3	RFX0573	5	S8740240P12	7	XFP-1001-4WH	5
D10040270GTL	6	RF2052	3	RFX0513	5	S8740260GT	7	XFP-2501-1UH	5
D10040300GTH	6	RF2053	3	RFX0553	5	S8740280GT	7		

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