



2023 PRODUCTS



Making Better Networks™

guerrilla-rf.com



Our Markets



Automotive Solutions

Infrastructure Solutions

Multimarket Solutions

Our Heritage



- US-Based Manufacturer of High Performance RFICs/MMICs
 - Founded in 2013
 - Publicly Traded Since 2021

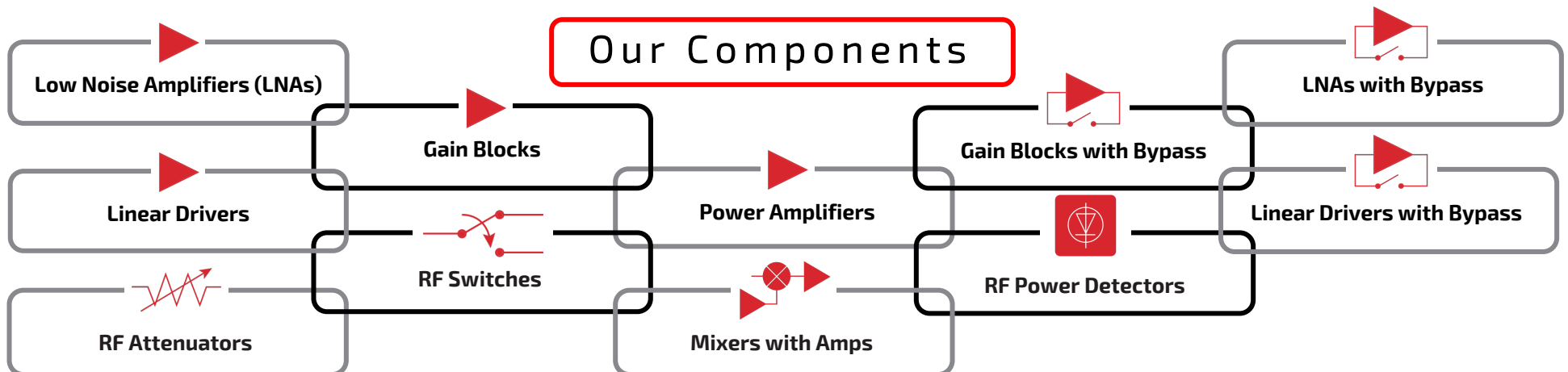


- Following Strict Fabless Semiconductor Model with Access to Multiple Best-of-Breed Processes
 - Deep Expertise in GaAs pHEMT, InGaP HBT, SOI & bulk CMOS
 - Outsourced Fabrication, Assembly & Test Streamlined for Efficient, High Volume / Low-Cost Production



- Key Market Differentiators:
 - Exclusive Focus on Infrastructure-Grade Apps
 - Offering Blend of Strategic Cores & General-Purpose Catalog Components
 - Renowned Amplifier Technology
 - Fast Time-to-Market Capabilities with Concept-to-Samples in as Little as 4 Months
 - Known for Exceptional Customer Support

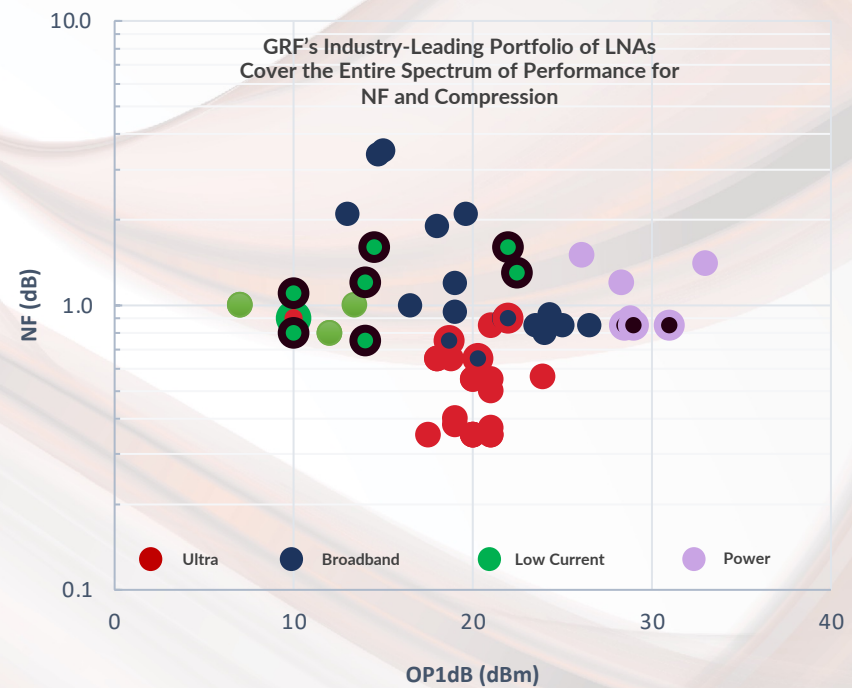
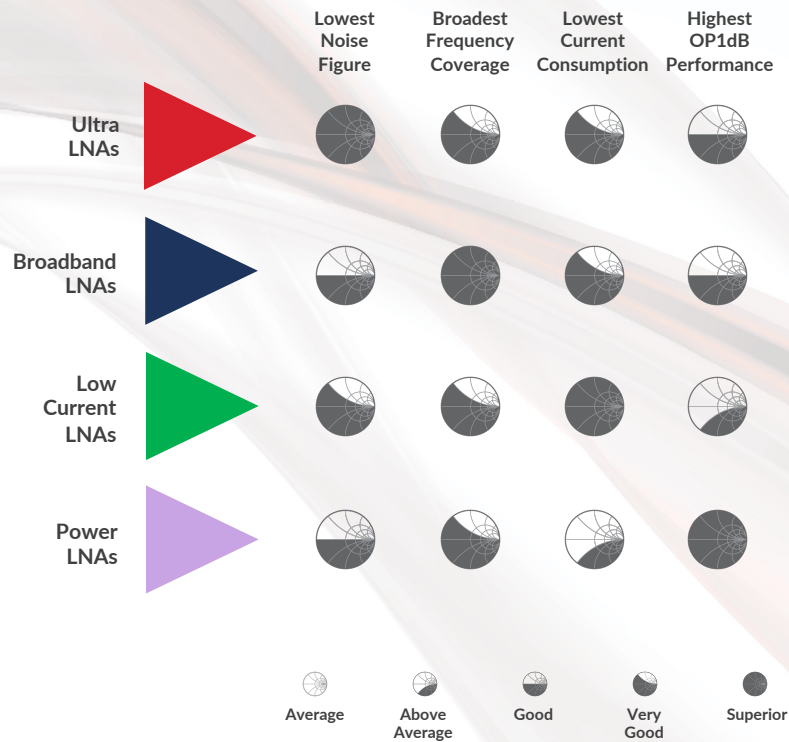
Our Components





Guerrilla RF has one of the most extensive offerings of high performance LNAs in the industry. Each of the 60+ components in our library have been optimized to accentuate critical parameters like ultra low noise figure, frequency coverage, current consumption and linearity/compression performance.

Use the categories below as a guide to discovering the ideal component for your specific application.



Ultra
LNAs



Lowest
Noise
Figure

Superior

Broadest
Frequency
Coverage

Very
Good

Lowest
Current
Consumption

Very
Good

Highest
OP1dB
Performance

Good

Ultra LNAs

Part Number	Frequency Range (GHz)	Gain (dB)	NF (dB)	OP1dB (dBm)	OIP3 (dBm)	V _{DD} Range (V)	I _{DD} Range (mA)	Special Features	Package (mm)
GRF2070	0.1-1.5	20.8	0.35	20	39.5	2.7-5.0	20-100		2.0 DFN-8
GRF2080	0.1-1.5	20.8	0.35	20	39.5	2.7-5.0	20-100	Digital Shutdown	2.0 DFN-8
GRF2133	0.4-2.7	28.5	0.65	20.3	30	1.8-5.0	30-160	High Gain	1.5 DFN-6
GRF2071	0.7-2.7	19	0.35	21	38	2.7-5.0	20-100		2.0 DFN-8
GRF2071W	0.7-2.7	19	0.35	21	38	2.7-5.0	20-100	AEC-Q100 Automotive Qualified	2.0 DFN-8
GRF2081	0.7-2.7	19	0.35	21	38	2.7-5.0	20-100	Digital Shutdown	2.0 DFN-8
GRF2078*	0.7-2.7	18.8	0.56	23.9	40.7	5	150	Dual Channel	3.0 QFN-16
GRF2051	0.7-3.8	19	0.37	21	36	2.7-5.0	20-100		2.0 QFN-12
GRF2072	1.5-3.8	19.8	0.55	20	37.5	2.7-5.0	20-100		2.0 DFN-8
GRF2082	1.5-3.8	19.8	0.55	20	37.5	2.7-5.0	20-100	Digital Shutdown	2.0 DFN-8
GRF2052	1.7-4.5	19.2	0.5	21	38	2.7-5.0	20-100		2.0 QFN-12
GRF2105	0.4-5.0	20.7	0.77	22.5	36	2.7-5.0	20-90	Flat Gain, Broadband	1.5 DFN-6
GRF2171	2.5-5.0	29.5	0.75	18.7	41.5	5	75	High Gain	1.5 DFN-6
GRF2074	1.0-6.0	20.5	0.35	17.5	35.5	2.7-5.0	20-100		2.0 DFN-8
GRF2093	1.0-6.0	21	0.38	19	36	2.7-5.0	30-100		1.5 DFN-6
GRF2093W	1.0-6.0	21	0.37	19	36	2.7-5.0	30-100	AEC-Q100 Automotive Qualified	1.5 DFN-6
GRF2083	2.0-6.0	18.6	0.65	18	35	2.7-5.0	20-100	Digital Shutdown	2.0 DFN-8
GRF2073	2.0-6.0	18.6	0.65	18	35	2.7-5.0	20-100		2.0 DFN-8
GRF2073W	3.0-6.0	20.5	0.4	19.8	35	2.7-5.0	20-100	AEC-Q100 Automotive Qualified	2.0 DFN-8
GRF2101	4.0-10.0	18	0.9	10	22	2.7-5.0	12-28	Low Cost	1.5 DFN-6
GRF2110	5.0-8.0	17	1.1	22	38	2.7-6.0	70	Ultra-Broadband	1.5 DFN-6

* Product is in Pre-Production. Contact sales@guerrilla-rf.com for minimum order quantity.
W suffix appended to the part number indicates that the device is AEC-Q100 Automotive Qualified.

Ultra LNAs with Bypass

Part Number	Frequency Range (GHz)	Gain (dB)	NF (dB)	OP1dB (dBm)	OIP3 (dBm)	V _{DD} Range (V)	I _{DD} Range (mA)	Special Features	Package (mm)
GRF2077*	0.7-3.8	17	0.9	22	40	3.0-5.0	70	Failsafe Bypass Mode	2.0 DFN-8
GRF2076	0.6-6.0	17.2	1.1	21	41	2.7-5.0	20-100		1.5 DFN-6
GRF2176*	1.7-5.0	32.4 15.8	0.68 0.65	20.9 13.9	32 24.9	2.7-6.0	66 28	High Gain	1.5 DFN-6

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Broadband LNAs



Lowest
Noise
Figure



Good

Broadest
Frequency
Coverage



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Current
Consumption



Very
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Highest
OP1dB
Performance



Good

Broadband LNAs

Part Number	Frequency Range (GHz)	Reference Design Tunes ¹ (MHz) [Standard Datasheet Tune in BOLD]			Gain (dB)	NF (dB)	OP1dB (dBm)	OIP3 (dBm)	V _{DD} Range (V)	I _{DD} Range (mA)	Special Features	Package (mm)
GRF2114	0.1-2.7	20-50	100-400	450-520 700-960	17.9	0.93	24.3	40.2	1.8-5.0	30-150	High Linearity	2.0 DFN-8
GRF2133	0.4-2.7	400-500 700-2700	800-2700 900-1200	1200-1600 1600-2100	28.5	0.65	20.3	30	1.8-5.0	30-160	High Gain	1.5 DFN-6
GRF2100	0.1-3.8	80-120 400-650 408-410 700-960	1150-1200 1150-1615 1540-1640 1700-2200	2300-2700 3400-3800 4300-5300	16.5	0.8	10	19	1.8-5.0	6-30		1.5 DFN-6
GRF2108*	0.1-3.8	100-700 241-251	470-960	400-2700	17	0.9	17.5	19	1.8-5.0	4-20	High Gain, Low Noise, Low Cost	1.5 DFN-6
GRF5020	0.1-3.8	30-2500 80-1000 350-750 470-870 500-3000 700-2700 800-1000	900-1300 1000-3300 1200-2000 1300-2700 1700-2700 1800-3800 2000-4000	2300-3500 2600-3400 3000-5000 3600-4400 4300-5300 5000-6000	17.3	0.8	24.5	37.2	4.5-10.0	50-200	High Linearity	3.0 QFN-16
GRF4002	0.1-3.8	15-50 20-40 70-110	100-1000 434-868 700-3600	1100-1700 1200-1400 2320-2345	15	0.85	23.5	36.5	1.8-5.0	20-80	High Linearity, Ultra-Broadband	1.5 DFN-6
GRF4002W	0.1-3.8		700-3600		15	0.85	23.5	36.5	1.8-5.0	20-80	High Linearity, Ultra-Broadband, AEC-Q100 Automotive Qualified	1.5 DFN-6
GRF4003	0.1-3.8	10-500 30-450	700-3600	868-915	13	0.85	25	41	1.8-5.0	30-120	High Linearity, Ultra-Broadband	1.5 DFN-6
GRF4004	0.1-3.8	20-60 400-900	600-1000	1700-2700	12.7	0.85	26.5	43	1.8-5.0	30-150	High Linearity	1.5 DFN-6
GRF5040	0.1-3.8	25-35 30-2500	900-1300 1200-1400	1500-1600 1700-2700	15	0.85	29.8	46.3	4.5-10.0	100-250	High Linearity	3.0 QFN-16
GRF2373	0.1-3.8	90-110 240-260 500-3000	800-1000 1700-2200	1900-2700 3600-4000	18.5	1.2	12.5	25	2.7-5.0	10-25		1.5 DFN-6
GRF2130*	0.7-3.8		1700-2200		32	1.2	14	17	1.8-5.0	15-50		1.5 DFN-6
GRF4012	0.4-4.2		2320-2345		17.8	0.9	21	32	1.8-5.0	20-80	High Gain, Low Noise	1.5 DFN-6
GRF4012W	0.4-4.2		2320-2345		17.8	0.9	21	32	1.8-5.0	20-80	High Gain, Low Noise, AEC-Q100 Automotive Qualified	1.5 DFN-6

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Note 1: New custom tunes are being added everyday. Be sure to look under the 'Custom Tunes' tab on the product's web page to view the latest set of matching options.

Note 2: Assumes a broadband choke. See datasheet for details.

Broadband
LNAs



Lowest
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Figure



Good

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► Broadband LNAs (continued)

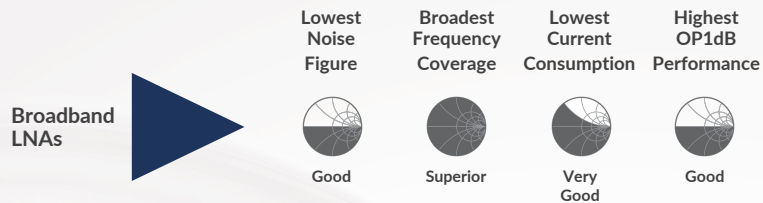
Part Number	Frequency Range (GHz)	Reference Design Tunes ¹ (MHz) [Standard Datasheet Tune in BOLD]			Gain (dB)	NF (dB)	OP1dB (dBm)	OIP3 (dBm)	V _{DD} Range (V)	I _{DD} Range (mA)	Special Features	Package (mm)
GRF2105	0.4-5.0	150-3500 450-1250 700-2700	800-3000 1000-2000 3000-5000	3300-4200 3400-3800 4400-5000	20.7	0.77	22.5	36	2.7-5.0	20-90	High Linearity; Ultra-Broadband	1.5 DFN-6
GRF2171	2.5-5.0	1170-1300 1525-1610 2000-2500	2100-2500 2900-3000 3400-3800	3300-4200 3800-4250	29.5	0.75	18.7	41.5	5	75		1.5 DFN-6
GRF5010	0.05-6.0	10-200 70-150 100-400	700-960 700-2700 900-1300	1700-3800 3400-3800 4250-4350	17	0.82	24.5	38.5	4.5-9.0	50-150	High Linearity; Ultra-Broadband	3.0 QFN-16
GRF4014	0.1-6.0	10-50 100-115 140-650 150-400	400-1000 902-928 950-1250 1240-1525	1700-3800 2400-2800 2700-3600 5800-6000	16.5	0.8	24	39	3.0-8.0	30-130	High Linearity; Ultra-Broadband	1.5 DFN-6
GRF4014W	0.1-6.0		1700-3800		17	0.8	24	39	3.0-8.0	30-130	High Linearity; Ultra-Broadband, AEC-Q100 Automotive Qualified	1.5 DFN-6
GRF4001	0.1-6.0		0.1-6000		15.5	1	16.5	30.5	1.8-5.0	5-50	Ultra-Broadband	1.5 DFN-6
GRF2505	4.0-6.0		4000-5925		12.5	1.2	19	30	1.8-5.0	20-60	Ultra-Broadband	1.5 DFN-6
GRF2013	0.05-8.0	50-100 50-2200 70-6000 100-500 100-1000 400-1000	700-900 700-3900 800-860 1200-1500 1700-2000 2000-6000	2500-2700 3000-6000 3400-3800 5855-5925 6000-7000 7750-8250	18.5	1.3	22.5	38.5	2.7-8.0	15-100	High Linearity; Ultra-Broadband	1.5 DFN-6
GRF2013W	0.05-8.0		700-3900		18.5	1.3	22.5	38.5	2.7-8.0	15-100	High Linearity; Ultra-Broadband, AEC-Q100 Automotive Qualified	1.5 DFN-6
GRF2110*	5.0-8.0		5000-8000		17	1.1	22	38	2.7-6.0	70	Ultra-Broadband	1.5 DFN-6
GRF3014*	0.001-9.0		0.1-9000		10	6	12.4	26	5	35-45	Ultra-Broadband	1.5 DFN-6
GRF3016	0.001-10.0		0.1-10000		13.5	4.2	16.5	30	5.0-9.0	65-80	Ultra-Broadband	1.5 DFN-6
GRF2004	0.1-10.0	0.1-10000 ² 50-300 50-10000	950-1700 2000-6000	7000-8000 9000-10000	16.5	1.9	18	31	1.8-5.0	60-120	Ultra-Broadband	1.5 DFN-6
GRF2003	0.1-10.0	400-6000	1000-5000	1000-10000	12	3.5	15	29	2.7-5.0	40-80	Ultra-Broadband	1.5 DFN-6
GRF3044	0.01-11.0	0.1-11000 ²	5000-6000	9000-11000	16.9	2.1	19.6	31.5	> 5.0	60-120	Ultra-Broadband	1.5 DFN-6
GRF3012	0.001-12.0		0.1-12000 ²		11	5.0	5	18	4.5-9.0	17-22	Ultra-Broadband	1.5 DFN-6
GRF2710	8.0-13.0		8000-12000		13.9	2.1	13	21	3.0-8.0	20-40	Ultra-Broadband	1.5 DFN-6
GRF3042	0.01-15.0		0.1-15000 ²		14.5	3.4	14.7	26	> 5.0	35-60	Ultra-Broadband	1.5 DFN-6
GRF3010*	0.001-15.0		0.1-15000 ²		14.3	5	5	17.5	5	17-22	Ultra-Broadband	1.5 DFN-6

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Note 1: New custom tunes are being added everyday. Be sure to look under the 'Custom Tunes' tab on the product's web page to view the latest set of matching options.

Note 2: Assumes a broadband choke. See datasheet for details.



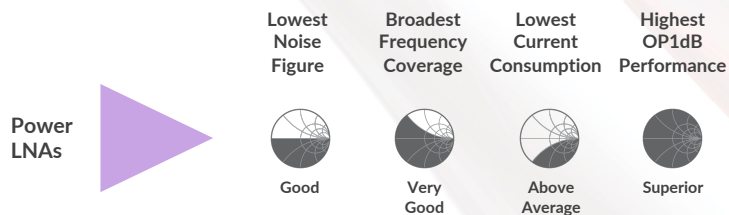
Broadband LNAs with Bypass

Part Number	Frequency Range (GHz)	Reference Design Tunes ¹ (MHz) [Standard Datasheet Tune in BOLD]		Gain (dB)	NF (dB)	OP1dB (dBm)	OIP3 (dBm)	V _{DD} Range (V)	I _{DD} Range (mA)	Special Features	Package (mm)
GRF4042	0.4-2.7	415-460 700-960	700-2700 1600-2100 2500-2700	16	0.9	22	36	1.8-5.0	20-180	High Linearity; Ultra-Broadband	2.0 QFN-12
GRF2140	0.1-3.8	85-115	493-547 1700-2200 2000-3000	16.2	1.1	10	23.5	2.7-5.0	6-30		1.5 DFN-6
GRF2374	0.1-3.8	380-480	400-960 1700-2200 820-920	16.5	1.2	10	22	2.7-5.0	10-25	Ultra-Broadband	1.5 DFN-6
GRF2077*	0.7-3.8		1700-2700	17	0.9	22	40	3.0-5.0	70	High Linearity	2.0 DFN-8
GRF2243	0.4-5.0	400-500 900-1000	1700-2100 2300-2700 3400-3800 4400-5000	19.7	0.75	14	23	2.7-5.0	8-25		1.5 DFN-6
GRF2243W*	0.4-5.0		2300-2700	19.7	0.75	14	23	2.7-5.0	8-25	High Gain, Low Noise, AEC-Q100 Automotive Qualified	1.5 DFN-6
GRF2043	0.05-6.0		400-2700	18.4	1.6	22	37	2.7-5.0	20-100	High Linearity	1.5 DFN-6
GRF4142	0.1-6.0	30-90	700-2700	15.3	0.9	19.3	33	1.8-5.0	15-80	Ultra-Broadband	1.5 DFN-6
		100-150	1700-2200								
		150-2700	1920-2170								
		415-460	2400-2600								

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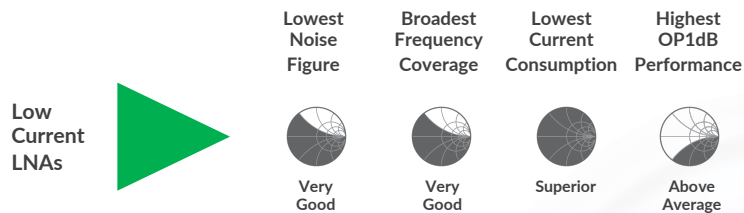
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Power LNAs

Part Number	Frequency Range (GHz)	Gain (dB)	NF (dB)	OP1dB (dBm)	OIP3 (dBm)	V _{DD} Range (V)	I _{DD} Range (mA)	Special Features	Package (mm)
GRF5109	0.4-1.5	17.9	1.2	28.3	45	2.7-5.0	50-200		3.0 QFN-16
GRF5115	0.1-2.7	14.8	1.4	33	45	2.7-5.0	100-300	Highest Linearity	3.0 QFN-16
GRF5110	1.5-2.7	15	0.9	28.8	45	2.7-5.0	50-200	Lowest Noise	3.0 QFN-16
GRF5020	0.1-3.8	17.3	0.8	24.5	37.2	4.5-10.0	50-200	Lowest Noise	3.0 QFN-16
GRF5040	0.1-3.8	15	0.85	29.8	46.3	4.5-10.0	100-250	Lowest Noise	3.0 QFN-16
GRF5010	0.05-6.0	17	0.82	24.5	38.5	4.5-9.0	50-150	Lowest Noise, Broad Frequency Range	3.0 QFN-16
GRF5511	0.7-8.0	20.1	1.5	26.1	39.6	4.5-9.0	50-200	High Gain, Broad Frequency Range	3.0 QFN-16



Low Current LNAs

Part Number	Frequency Range (GHz)	Gain (dB)	NF (dB)	OP1dB (dBm)	OIP3 (dBm)	V _{DD} Range (V)	I _{DD} Range (mA)	Special Features	Package (mm)
GRF2100	0.1-3.8	16.5	0.8	10	19	1.8-5.0	6-30	Low Cost	1.5 DFN-6
GRF2373	0.1-3.8	18.5	1.2	12.5	25	2.7-5.0	10-25	Low Cost	1.5 DFN-6
GRF2108*	0.1-3.8	17	0.9	17.5	19	1.8-5.0	4-20	High Gain, Low Noise, Low Cost	1.5 DFN-6
GRF2201	0.4-3.8	20.5	0.8	12	26	2.7-5.0	10-30	High Gain	1.5 DFN-6
GRF2130*	0.7-3.8	32	1.2	14	17	1.8-5.0	15-50	Ultra-High Gain	1.5 DFN-6
GRF2106	0.1-4.2	20.5	0.8	12	26	2.7-5.0	8-30	High Gain	1.5 DFN-6
GRF2012	0.05-6.0	15	2.7	22.5	40	2.7-8.0	15-100	Flat Gain	1.5 DFN-6
GRF2012W	0.05-6.0	14.8	2.7	23	40	2.7-8.0	15-100	Flat Gain, AEC-Q100 Automotive Qualified	1.5 DFN-6
GRF2501	4.9-6.0	16	1	7	19	2.7-5.0	12-28		1.5 DFN-6
GRF2501W	4.9-6.0	16	1	7	19	2.7-5.0	12-28	AEC-Q100 Automotive Qualified	1.5 DFN-6
GRF2013	0.05-8.0	18.5	1.3	22.5	38.5	2.7-8.0	15-100	Flat Gain	1.5 DFN-6
GRF2013W	0.05-8.0	18.5	1.3	22.5	38.5	2.7-8.0	15-100	Flat Gain, AEC-Q100 Automotive Qualified	1.5 DFN-6
GRF2101	4.0-10.0	18	0.9	10	22	2.7-5.0	12-28	Low Cost	1.5 DFN-6

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Low Current LNAs with Bypass

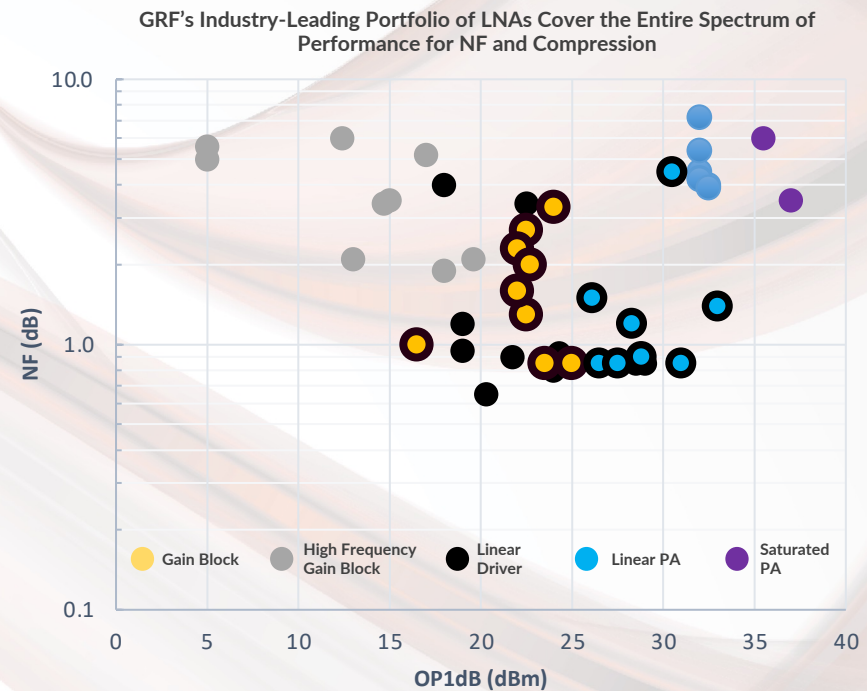
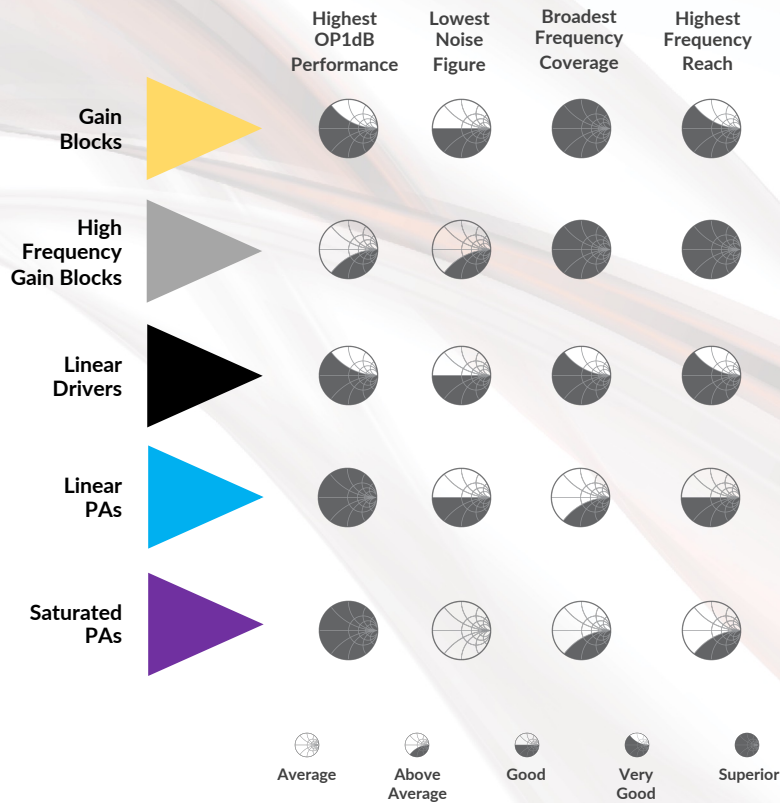
Part Number	Frequency Range (GHz)	Gain (dB)	NF (dB)	OP1dB (dBm)	OIP3 (dBm)	V _{DD} Range (V)	I _{DD} Range (mA)	Special Features	Package (mm)
GRF2140	0.1-3.8	16.2	1.1	10	23.5	2.7-5.0	6-30		1.5 DFN-6
GRF2374	0.1-3.8	16.5	1.2	10	22	2.7-5.0	10-25		1.5 DFN-6
GRF2243	0.4-5.0	19.7	0.75	14	23	2.7-5.0	8-25	High Gain	1.5 DFN-6
GRF2243W*	0.4-5.0	19.7	0.75	14	23	2.7-5.0	8-25	High Gain, Low Noise, AEC-Q100 Automotive Qualified	1.5 DFN-6
GRF2043	0.05-6.0	18.4	1.6	22	37	2.7-5.0	20-100	High Gain; High Linearity	1.5 DFN-6
GRF2042	0.05-6.0	15	2.3	22	39	2.7-5.0	20-100	Flat Gain; High Linearity	1.5 DFN-6
GRF2541	4.9-6.0	16.4	1	7	19	2.7-5.0	12-28		1.5 DFN-6
GRF2543	4.9-6.0	14.4	1	13.4	25.5	2.7-5.0	15		1.5 DFN-6

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W suffix appended to the part number indicates that the device is AEC-Q100 Automotive Qualified.

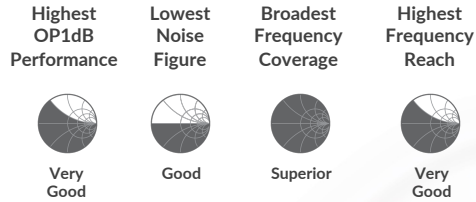
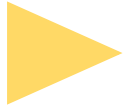
GRF Gain Blocks, Drivers, & PAs

Guerrilla RF has over 35 medium and high-power amplifier cores which have been optimized for linearity over a variety of RF and microwave frequency ranges.

Use the categories below as a guide to discovering the ideal component for your specific application.



Gain
Blocks



High Linearity Gain Blocks

Part Number	Frequency Range (GHz)	Reference Design Tunes ¹ (MHz) [Standard Datasheet Tune in BOLD]			Gain (dB)	NF (dB)	OP1dB (dBm)	OIP3 (dBm)	V _{DD} Range (V)	I _{DD} Range (mA)	Special Features	Package (mm)
GRF2011	0.05-3.8	20-70 40-60	174-240 450-520	700-3800	15.2	2	22.7	40	2.7-8.0	15-100		1.5 DFN-6
GRF2014	0.05-3.8	100-1800	500-3000	1500-2400	15.9	3.3	24	43.5	2.7-8.0	50-180	Flat Gain	1.5 DFN-6
GRF4002	0.1-3.8	15-50 20-40 70-110	100-1000 100-3600 430-870 700-3600	1100-1700 1200-1400 2320-2345	15	0.85	23.5	36.5	1.8-5.0	20-80	Low Noise	1.5 DFN-6
GRF4002W	0.1-3.8		700-3600		15	0.85	23.5	36.5	1.8-5.0	20-80	Low Noise, AEC-Q100 Automotive Qualified	1.5 DFN-6
GRF4003	0.1-3.8	10-500 30-450	100-3800 700-3600	868-915	13	0.85	25	41	1.8-5.0	30-120	Low Noise	1.5 DFN-6
GRF4012	0.4-4.2	30-100 200-3000	2320-2345	3200-4200	17.8	0.9	21	32	1.8-5.0	20-80	High Gain, Low Noise	1.5 DFN-6
GRF4012W	0.4-4.2		2320-2345		17.8	0.9	21	32	1.8-5.0	20-80	High Gain, Low Noise, AEC-Q100 Automotive Qualified Broadband, Low Noise	1.5 DFN-6
GRF2010	0.05-5		400-4000		10.5	3.1	20.5	32.5	2.7-8.0	15-100		1.5 DFN-6
GRF2012	0.05-6.0	50-6000 700-900	700-1200 400-3800	1700-2000 2500-2700	15	2.7	22.5	40	2.7-8.0	30-120	Flat Gain	1.5 DFN-6
GRF2012W	0.05-6.0		400-3800		14.8	2.7	23	40	2.7-8.0	15-100	Flat Gain, AEC-Q100 Automotive Qualified	1.5 DFN-6
GRF4001	0.1-6.0	100-5500	3300-3800 700-900 700-3800	2500-2700 3000-6000 800-860 3400-3800 5855-5925 1200-1500 6000-7000 1700-2000 7750-8250 2000-6000	15.5	1	16.5	30.5	1.8-5.0	5-50	Low Noise	1.5 DFN-6
GRF2013	0.05-8.0	50-100 50-2200 70-6000 100-500 100-1000 400-1000	800-860 800-860 1200-1500 1700-2000 2000-6000	3000-6000 3400-3800 5855-5925 6000-7000 7750-8250	18.5	1.3	22.5	38.5	2.7-8.0	15-100	Low Noise, Flat Gain	1.5 DFN-6
GRF2013W	0.05-8.0		700-3800		18.5	1.3	22.5	38.5	2.7-8.0	15-100	Low Noise, Flat Gain, AEC-Q100 Automotive Qualified	1.5 DFN-6

* Product is in Pre-Production. Contact sales@guerrilla-rf.com for minimum order quantity.

W suffix appended to the part number indicates that the device is AEC-Q100 Automotive Qualified.

Note 1: New custom tunes are being added everyday. Be sure to look under the 'Custom Tunes' tab on the product's web page to view the latest set of matching options.

High Linearity Gain Blocks with Bypass

Part Number	Frequency Range (GHz)	Reference Design Tunes ¹ (MHz) [Standard Datasheet Tune in BOLD]			Gain (dB)	NF (dB)	OP1dB (dBm)	OIP3 (dBm)	V _{DD} Range (V)	I _{DD} Range (mA)	Special Features	Package (mm)
GRF2043	0.05-6.0	400-2700	700-5000		18.4	1.6	22	37	2.7-5.0	20-100	Low Noise	1.5 DFN-6
GRF2042	0.05-6.0	600-2700	3500-4500	5000-6000	15	2.3	22	39	2.7-5.0	20-100	Flat Gain	1.5 DFN-6

Note 1: New custom tunes are being added everyday. Be sure to look under the 'Custom Tunes' tab on the product's web page to view the latest set of matching options.

High
Frequency
Gain Blocks



Highest
OP1dB
Performance



Above
Average

Lowest
Noise
Figure



Above
Average

Broadest
Frequency
Coverage



Superior

Highest
Frequency
Reach



Superior

High Frequency Gain Blocks

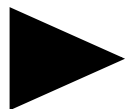
Part Number	Frequency Range (GHz)	Reference Design Tunes ¹ (MHz) [Standard Datasheet Tune in BOLD]		Gain (dB)	NF (dB)	OP1dB (dBm)	OIP3 (dBm)	V _{DD} Range (V)	I _{DD} Range (mA)	Special Features	Package (mm)	
GRF3014*	0.001-9.0	1-9000 ²		10	6	12.4	26	5	35-45	Ultra-Flat Gain, Near-DC Frequency Operation	1.5 DFN-6	
GRF3016	0.001-10.0	1-10000 ²		13.5	4.2	16.5	30	5.0-9.0	65-80	Flat Gain, Near-DC Frequency Operation	1.5 DFN-6	
GRF2004	0.1-10.0	50-300 50-10000	100-10000 950-1700 2000-6000 1000-5000	7000-8000 9000-10000	16.5	1.9	18	31	1.8-5.0	60-120	Low Noise	1.5 DFN-6
GRF2003	0.1-10.0	400-6000	1000-5000 1000-10000		12	3.5	15	29	2.7-5.0	40-80		1.5 DFN-6
GRF3044	0.01-11.0	100-10000	100-12000 5000-6000	9000-11000	16.9	2.1	19.6	31.5	> 5.0	60-120	Low Noise	1.5 DFN-6
GRF3012	0.001-12.0	1-12000 ²		11	5.0	5	18	4.5-9.0	17-22	Flat Gain, Near DC Frequency Operation	1.5 DFN-6	
GRF2710	8.0-12.0	8000-12000		13.9	2.1	13	21	3.0-8.0	20-40	Low Noise	1.5 DFN-6	
GRF3010*	0.001-15.0	1-15000 ²		14.3	5	5	17.5	5	17-22	Low Current	1.5 DFN-6	
GRF3042	0.01-15.0	100-15000		14.5	3.4	14.7	26	> 5.0	35-60		1.5 DFN-6	

* Product is in Pre-Production. Contact sales@guerrilla-rf.com for minimum order quantity.

Note 1: New custom tunes are being added everyday. Be sure to look under the 'Custom Tunes' tab on the product's web page to view the latest set of matching options.

Note 2: Assumes a broadband choke. See datasheet for details.

Linear Drivers



Highest
OP1dB
Performance



Very
Good

Lowest
Noise
Figure



Good

Broadest
Frequency
Coverage



Very
Good

Highest
Frequency
Reach



Very
Good

Linear Drivers

Part Number	Frequency Range (GHz)	Gain (dB)	NF (dB)	OP1dB (dBm)	OIP3 (dBm)	V _{DD} Range (V)	I _{DD} Range (mA)	Special Features	Package (mm)
GRF5307*	0.617-0.862	35.6	3.6	32.9	39	5	150 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5109	0.4-1.5	17.9	1.2	28.3	45	2.7-5.0	50-200	High Linearity, Low Noise	3.0 QFN-16
GRF5317*	1.7-2.0	27.6	4.0	31.8	40.6	5	150 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5115	0.1-2.7	14.8	1.4	33	45	2.7-5.0	100-300	Ultra-High Linearity	3.0 QFN-16
GRF2114	0.1-2.7	17.9	0.93	24.3	40.2	1.8-5.0	30-150	Low Noise	2.0 DFN-8
GRF2133	0.4-2.7	28.5	0.65	20.3	30	1.8-5.0	30-160	Ultra-High Gain, Ultra-low Noise	1.5 DFN-6
GRF5110	1.5-2.7	15	0.9	28.8	45	2.7-5.0	50-200	High Linearity, Low Noise	3.0 QFN-16
GRF2011	0.05-3.8	15.2	2	22.7	40	2.7-8.0	15-100		1.5 DFN-6
GRF2014	0.05-3.8	15.9	3.3	24	43.5	2.7-8.0	50-180	Flat Gain	1.5 DFN-6
GRF4005	0.1-3.8	13	0.85	27.5	43	1.8-5.0	50-200	High Linearity, Low Noise	1.5 DFN-6
GRF4004	0.1-3.8	12.7	0.85	26.5	43	1.8-5.0	30-150	High Linearity, Low Noise	1.5 DFN-6
GRF4003	0.1-3.8	13	0.85	25	41	1.8-5.0	30-120	High Linearity, Low Noise	1.5 DFN-6
GRF4002	0.1-3.8	15	0.85	23.5	36.5	1.8-5.0	20-80	Low Noise	1.5 DFN-6
GRF4002W	0.1-3.8	15	0.85	23.5	36.5	1.8-5.0	20-80	Low Noise, AEC-Q100 Automotive Qualified	1.5 DFN-6
GRF5040	0.1-3.8	15	0.85	29.8	46.3	4.5-10.0	100-250	High Linearity, Low Noise	3.0 QFN-16
GRF5020	0.1-3.8	17.3	0.8	24.5	37.2	4.5-10.0	50-200	High Linearity, Low Noise	3.0 QFN-16
GRF4100*	0.1-3.8	16.5	3.4	22.5	31.5	2.7-5.0	20-40	High Gain, Internally Matched	1.5 DFN-6
GRF4200*	0.1-3.8	21.5	4	18	35.5	2.7-5.0	5-40	High Gain, Internally Matched	1.5 DFN-6
GRF4205*	0.4-3.8	20	4.5	30.5	51	3.0-9.0	500	High Reverse Isolation	3.0 QFN-16
GRF4012	0.4-4.2	17.8	0.9	21	32	1.8-5.0	20-80	High Gain, Low Noise	1.5 DFN-6
GRF4012W	0.4-4.2	17.8	0.9	21	32	1.8-5.0	20-80	High Gain, Low Noise, AEC-Q100 Automotive Qualified	1.5 DFN-6
GRF2010	0.05-5.0	10.5	3.1	20.5	32.5	2.7-8.0	15-100	Broadband, Low Noise, Internally Matched	1.5 DFN-6
GRF5236*	2.3-4.2	35	5.8	30	30	3.0-5.5	85-125	High Gain, Excellent Compression	3.0 QFN-16
GRF5123*	1.8-5.0	33.1	1.6	22.7	37.3	3.0-5.5	114	High Gain, Excellent Compression	3.0 QFN-16
GRF5124*	1.8-5.0	36.5	2.2	23.5	35.1	3.0-5.5	106	High Gain, Excellent Compression	3.0 QFN-16
GRF2012	0.05-6.0	15	2.7	22.5	40	2.7-8.0	30-120	Flat Gain, Broad Frequency Range	1.5 DFN-6
GRF2012W	0.05-6.0	14.8	2.7	23	40	2.7-8.0	15-100	Flat Gain, AEC-Q100 Automotive Qualified	1.5 DFN-6
GRF5010	0.05-6.0	17	0.82	24.5	38.5	4.5-9.0	50-150	Low Noise	3.0 QFN-16
GRF4001	0.1-6.0	15.5	1	16.5	30.5	1.8-5.0	5-50	Low Noise	1.5 DFN-6
GRF4014	0.1-6.0	16.5	0.8	24	39	3.0-8.0	30-130	Low Noise	1.5 DFN-6
GRF4014W	0.1-6.0	17	0.8	24	39	3.0-8.0	30-130	Low Noise, AEC-Q100 Automotive Qualified	1.5 DFN-6
GRF5511	0.7-8.0	20.1	1.5	26.1	39.6	4.5-9.0	50-200	High Linearity	3.0 QFN-16
GRF2505	4.0-6.0	12.5	1.2	19	30	1.8-5.0	20-60		1.5 DFN-6
GRF2110	5.0-8.0	17	1.1	22	38	2.7-6.0	70	Ultra-Broadband	1.5 DFN-6
GRF2013	0.05-8.0	18.5	1.3	22.5	38.5	2.7-8.0	15-100	Flat Gain, Broad Frequency Range	1.5 DFN-6
GRF2013W	0.05-8.0	18.5	1.3	22.5	38.5	2.7-8.0	15-100	Flat Gain, Broad Frequency Range, AEC-Q100 Automotive Qualified	1.5 DFN-6

* Product is in Pre-Production. Contact sales@guerrilla-rf.com for minimum order quantity.

W suffix appended to the part number indicates that the device is AEC-Q100 Automotive Qualified.

Linear Drivers with Bypass

Part Number	Frequency Range (GHz)	Gain (dB)	NF (dB)	OP1dB (dBm)	OIP3 (dBm)	V _{DD} Range (V)	I _{DD} Range (mA)	Special Features	Package (mm)
GRF4042	0.4-2.7	16	0.9	22	36	1.8-5.0	20-180	Low Noise	2.0 QFN-12
GRF2042	0.05-6.0	15	2.3	22	39	2.7-5.0	20-100	Flat Gain, Broad Frequency Range	1.5 DFN-6
GRF2043	0.05-6.0	18.4	1.6	22	37	2.7-5.0	20-100	Broad Frequency Range	1.5 DFN-6
GRF4142	0.1-6.0	15.3	0.9	19.3	33	1.8-5.0	15-80	Low Noise, Single Logic Control	1.5 DFN-6

Linear
PAs



Highest
OP1dB
Performance



Superior

Lowest
Noise
Figure



Good

Broadest
Frequency
Coverage



Above
Average

Highest
Frequency
Reach



Good

Linear Power Amplifiers

Part Number	Frequency Range (GHz)	Rated P _{OUT} ¹ (dBm)	Gain (dB)	NF (dB)	OP1dB (dBm)	OIP3 (dBm)	V _{DD} Range (V)	I _{DD} Range (mA)	Features	Package (mm)
GRF5605	0.617-0.652	25 ¹	28.2	4.2	35.3	47.5	5	310 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5307*	0.617-0.862	20 ¹	35.6	3.6	32.9	39	5	150 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5506	0.66-0.72	24 ¹	28.4	4.5	33.3	46.8	5	290 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5606*	0.663-0.716	27 ¹	27.5	4.2	35.6	54.7	5	310 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5507	0.7-0.8	24 ¹	30.5	4.5	33.4	47.3	5	305 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5607	0.709-0.748	27 ¹	28.2	4.1	35.7	51.3	5	210 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5508	0.8-0.9	24 ¹	29.7	4.5	33.1	45.4	5	302 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5608	0.746-0.83	27 ¹	27.8	4.8	36.0	49.0	5	310 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5609	0.814-0.862	26 ¹	27.8	4.6	35.7	49.4	5	310 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5610*	0.865-0.928	27 ¹	26	4.3	34.5	48	5	205 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5510	0.88-0.96	24 ¹	29.2	4.5	33.8	46.1	5	352 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5109	0.4-1.5		17.9	1.2	28.3	45	2.7-5.0	50-200	Low Noise, Flexible Bias	3.0 QFN-16
GRF5317*	1.7-2.0	18 ¹	27.6	4.0	31.8	40.6	5	150 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5517	1.7-1.8	22.5 ¹	27.5	5.4	32	48	5	305 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5617*	1.7-1.9	24.5 ¹	28.0	3.1	34.5	46.8	5	390 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5518	1.8-1.91	23 ¹	27	4.2	32	45	5	310 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5618*	1.8-1.92	25.5 ¹	24.5	4.2	35.9	47.7	5	380 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5519	1.92-2.0	23 ¹	26.5	4.1	32	45	5	310 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5619*	1.8-1.92	25.5 ¹	30.1	4.2	34.8	47	5	380 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5521	2.11-2.17	23 ¹	31	3.1	33	45	5	235 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5621*	2.11-2.17	25 ¹	31.5	3.1	35	47	5	380 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5526*	2.5-2.7	23 ¹	30	3.3	32.2	45	5	250 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5536*	3.3-4.2	23 ¹	27.3	4.1	32	45	5	280 ³	High Gain, High Efficiency, Exceptionally Rugged	3.0 QFN-16
GRF5115	0.1-2.7		14.8	1.4	33	45	2.7-5.0	100-300	Low Noise, Flexible Bias	3.0 QFN-16
GRF5112	1.5-2.7		17.5	1.55	32	41	2.7-5.0	300	Low Noise, Flexible Bias	3.0 QFN-16
GRF5110	1.5-2.7		15	0.9	28.8	45	2.7-5.0	50-200	Low Noise, Flexible Bias	3.0 QFN-16
GRF4004	0.1-3.8		12.7	0.85	26.5	43	1.8-5.0	30-150	Low Noise, Flexible Bias	1.5 DFN-6
GRF4005	0.1-3.8		13	0.85	27.5	43	1.8-5.0	50-200	Low Noise, Flexible Bias	1.5 DFN-6
GRF5040	0.1-3.8		15	0.85	29.8	46.3	4.5-10.0	100-250	Low Noise, Flexible Bias	3.0 QFN-16
GRF4205*	0.4-3.8		20	4.5	30.5	51	3.0-9.0	500	High Gain, High Linearity, High Reverse Isolation, Flexible Bias	3.0 QFN-16
GRF5511	0.7-8.0		20.1	1.5	26.1	39.6	4.5-9.0	50-200	High Gain, Low Noise, Flexible Bias	3.0 QFN-16

* Product is in Pre-Production. Contact sales@guerrilla-rf.com for minimum order quantity.

Note 1: Rated P_{OUT} Yields Better Than -45dBc ACLR (LTE 20MHz 100RB TM1.1 Downlink Waveform with 9.8dB PAR).

Note 2: Rated P_{OUT} for DSRC/802.11p operation.

Note 3: I_{DD} with RF power applied.



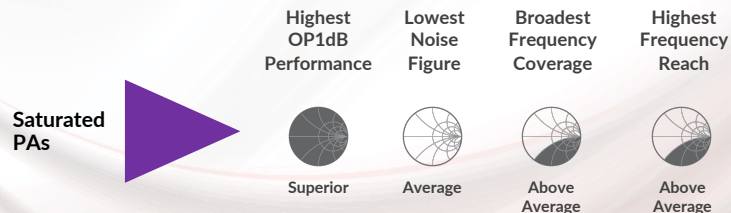
Guerrilla Bloc™ Linear Power Amplifier Modules

Part Number	Frequency Range (GHz)	Rated P _{OUT} ¹ (dBm)	Gain (dB)	NF (dB)	OP1dB (dBm)	OIP3 (dBm)	V _{DD} Range (V)	I _{DD} (mA)	Features	Package (mm)
GRF5406*	0.66-0.72	24	28.4	4.5	33.3	46.8	5	290 ²	High Gain, High Efficiency, Exceptionally Rugged	3.5 LFM
GRF5407*	0.7-0.8	24	30.5	4.5	33.4	47.3	5	305 ²	High Gain, High Efficiency, Exceptionally Rugged	3.5 LFM
GRF5408*	0.8-0.9	24	29.7	4.5	33.1	45.4	5	302 ²	High Gain, High Efficiency, Exceptionally Rugged	3.5 LFM
GRF5410*	0.88-0.96	24	29.2	4.5	33.8	46.1	5	352 ²	High Gain, High Efficiency, Exceptionally Rugged	3.5 LFM
GRF5417*	1.7-1.8	22.5	27.5	5.4	32	48	5	305 ²	High Gain, High Efficiency, Exceptionally Rugged	3.5 LFM
GRF5418*	1.8-1.91	23	27	4.2	32	45	5	310 ²	High Gain, High Efficiency, Exceptionally Rugged	3.5 LFM
GRF5419*	1.92-2.0	23	26.5	4.1	32	45	5	310 ²	High Gain, High Efficiency, Exceptionally Rugged	3.5 LFM
GRF5421*	2.11-2.17	23	31	3.1	33	45	5	250 ²	High Gain, High Efficiency, Exceptionally Rugged	3.5 LFM
GRF5458*	5.855-5.925	28.5	31.7	-	-	-	5	525 ²	Ideal for DSRC and C-V2X applications. 28.5dBm P _{OUT} for 10MHz 50RB C-V2X waveform.	3.8 x 2.7 QFNM

* Product is in Pre-Production. Contact sales@guerrilla-rf.com for minimum order quantity.

Note 1: Rated P_{OUT} Yields Better Than -45dBc ACLR (LTE 20MHz 100RB TM1.1 Downlink Waveform with 9.8dB PAR).

Note 2: I_{DD} with RF power applied.



Saturated Power Amplifiers

Part Number	Frequency Range (GHz)	Rated P _{OUT} (dBm)	Gain (dB)	OP1dB (dBm)	P _{SAT} (dBm)	PAE (%)	V _{DD} Range (V)	I _{DD} (mA)	Features	Package (mm)
GRF5504	0.4-0.5	35	41	34	35.5	64	3.5-5	120 ¹	High Efficiency, High Power	3.0 QFN-16
GRF5509	0.7-1.0	36	33.4	35.5	36.4	55	3.5-5	125 ¹	High Efficiency, High Power	3.0 QFN-16
GRF5529	2.95	33.5	29.5	4.5	34	57	3.5-5	110 ¹	High Efficiency, High Power, Ideal for Pulsed Operation	3.0 QFN-16

* Product is in Pre-Production. Contact sales@guerrilla-rf.com for minimum order quantity.

Note 1: Quiescent current.

RF Switches

Part Number	Switch Type	Frequency Range (GHz)	Path	IL (dB)	RF1/2 to RFC ISO (dB)	RF1 to RF2 ISO (dB)	OP1dB (dBm)	OIP3 (dBm)	V _{DD} Range (V)	Special Features	Package (mm)
GRF6001*	Reflective SPDT	0.1-10.0	RFC to RF1: RFC to RF2:	1 1	-	28 38	26 26	50 50	3.0-5.0	High Frequency Operation	1.5 DFN-6
GRF6011	Reflective SPDT	0.1-6.0	RFC to RF1: RFC to RF2:	0.43 0.33	-	22 25	32 30.5	49.5 51	3.0-5.0	Failsafe Mode (Upon loss of power, RFC to RF1 defaults to OPEN, RFC to RF2 defaults to CLOSE)	1.5 DFN-6
GRF6510*	Reflective SPDT	0.1-10.0	RFC to RF1: RFC to RF2:	0.6 0.6	31	-	36 36	57 57	3.0-5.0	High Frequency Operation	1.5 DFN-6
GRF6511*	Reflective SPDT	0.1-10.0	RFC to RF1: RFC to RF2:	0.8 0.8	45	-	34 34	51 51	3.0-5.0	High Frequency Operation	1.5 DFN-6
GRF6515*	Absorptive SPDT	0.1-10.0	RFC to RF1: RFC to RF2:	0.9 0.9	58	47	36 36	59 59	3.0-5.0	High Frequency Operation, High Isolation, Absorptive	3.0 QFN-16
GRF6520*	Reflective SPDT	0.1-10.0	RFC to RF1: RFC to RF2:	0.4 0.4	27	-	36 36	65 65	3.0-5.0	High Frequency Operation, Low IL	1.5 DFN-6
GRF6530*	Reflective SPDT	0.1-10.0	RFC to RF1: RFC to RF2:	0.4 0.4	23	-	36 36	70 70	3.0-5.0	High Frequency Operation, Low IL, Higher Linearity	1.5 DFN-6

* Product is in Pre-Production. Contact sales@guerrilla-rf.com for minimum order quantity.
W suffix appended to the part number indicates that the device is AEC-Q100 Automotive Qualified.

DSAs (Digital Step Attenuators)

Part Number	Frequency Range (GHz)	Attenuation Range (dB)	Step Size (dB)	Control Interface	Supported Addresses	IL (dB)	IIP3 (dBm)	V _{DD} Range (V)	I _{DD} (mA)	Special Features	Package (mm)
GRF6402	0.05 – 6.0	31.75	0.25	SPI	8	1.3	60	3.0-5.5	2.5	Rapid Fire Attenuation, Glitch-free Stepping, Addressability	3.0 QFN-16
GRF6402W*	0.05 – 6.0	31.75	0.25	SPI	8	1.3	60	3.3-5.5	2.5	Rapid Fire Attenuation, Glitch-free Stepping, Addressability	3.0 QFN-16
GRF6403*	0.05 – 6.0	31.75	0.25	SPI + Parallel	1	1.3	60	3.0-5.5	2.5	Rapid Fire Attenuation, Glitch-free Stepping	4.0 QFN-24
GRF6404*	0.05 – 6.0	31.75	0.25	SPI + Parallel	8	1.3	60	3.0-5.5	2.5	Rapid Fire Attenuation, Glitch-free Stepping, Addressability	5.0 QFN-32
GRF6405*	0.05 – 8.0	31.75	0.25	SPI	8	1.2	60	3.0-5.5	2.5	Rapid Fire Attenuation, Glitch-free Stepping, Addressability	3.0 QFN-16

* Product is in Pre-Production. Contact sales@guerrilla-rf.com for minimum order quantity.
W suffix appended to the part number indicates that the device is AEC-Q100 Automotive Qualified.

RF Power Detectors

Part Number	Detector Type	Frequency Range (GHz)	RF Input Power Range (dBm)	Output Voltage Range (V)	Slope (mV/dB)	Intercept (dBm)	V _{DD} Range (V)	I _{DD} (mA)	Special Features	Package (mm)
GRF1201	Logarithmic Average Power Detector	0.1-6.0	-20 to +20	1.1-4.3	80	-33.2	2.7-5.0	7	Broadband, Low Current	1.5 DFN-6
GRF1201W	Logarithmic Average Power Detector	0.1-6.0	-20 to +20	1.1-4.3	80	-33.2	2.7-5.0	7	Broadband, Low Current, AEC-Q100 Automotive Qualified	1.5 DFN-6
GRF1202*	Logarithmic Average Power Detector	0.1-4+	-60 to +5	0.5-3.0	0.037	-	3.3-5.0	25	Enhanced Dynamic Range	1.5 DFN-6

* Product is in Pre-Production. Contact sales@guerrilla-rf.com for minimum order quantity.
W suffix appended to the part number indicates that the device is AEC-Q100 Automotive Qualified.

Mixers

Part Number	Description	RF/IF (GHz)	LO (GHz)	Conv Gain (dB)	IP1dB (dBm)	IIP3 (dBm)	V _{DD} Range (V)	I _{DD} Range (mA)	Special Features	Package (mm)
GRF7001	Linear TX/RX Mixer with Integrated LO Buffer	0.1-4.0	0.1-4.0	-6	>17.0	25	3.0-5.0	10-30	Ideal for both TX and RX Applications	1.5 DFN-6
GRF7034*	Linear RX Mixer with Integrated LO Buffer and IF Amplifier	0.1-4.0	0.1-4.0	11.8	0	11	3	26	Ideal for RX Applications, IF Amplifier Integration	2.0 QFN-12
GRF7042*	Double-Balanced TX/RX Mixer with Integrated LO Buffer	0.1-5.0	0.1-4	-7.5	> 13	23.5	3.0-5.0	18.3	Ideal for both TX and RX Applications, Increased Linearity, Better Spurious Suppression, Low LO Drive Levels	2.0 QFN-12

* Product is in Pre-Production. Contact sales@guerrilla-rf.com for minimum order quantity.



Competitive Differentiators



Modular Design Approach

Common Footprints Across Key RF Blocks



Extensive Library of Key Cores

Enables Agile Design Approach with Time-to-Samples as Short as 4 Months



Exceptionally Responsive Design Support

Ability to Optimize / Obtain the Very Best Performance From Cores in a Remarkably Short Time

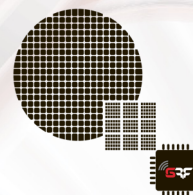


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Access to World Class Wafer Fabrication and Device Assembly/Test

'Best of Breed', Cost Effective, High Volume Processes

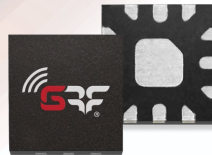
Our Packages



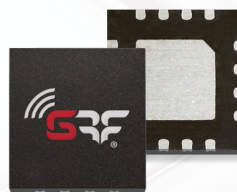
DFN-6 1.5x1.5



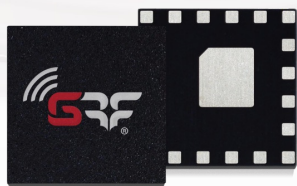
DFN-8 2x2



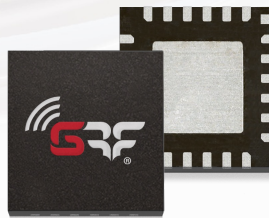
QFN-12 2x2



QFN-16 3x3



QFNM-20 3.5x3.5



QFN-24 4x4



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2000 Pisgah Church Rd.
Greensboro, North Carolina 27455
336.579.5311

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