



WIRELESS BACKHAUL

**CELLULAR REPEATERS/
SIGNAL BOOSTERS**

**ENTERPRISE/CARRIER-CLASS
WI-FI ACCESS POINTS**

SATELLITE RADIO

AUTOMOTIVE

INFRASTRUCTURE/DAS

DEFENSE/GPS

RF TEST



Making Better Networks

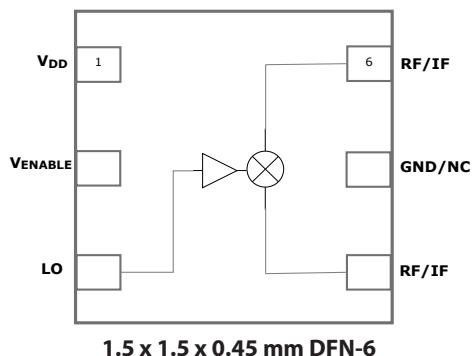
Product Selection Guide: Summer 2018



FEATURED PRODUCTS

NEW! GRF7001 Up/Downconverter with Integrated LO Buffer

Tuning Range: 0.7 – 2.7 GHz



Applications

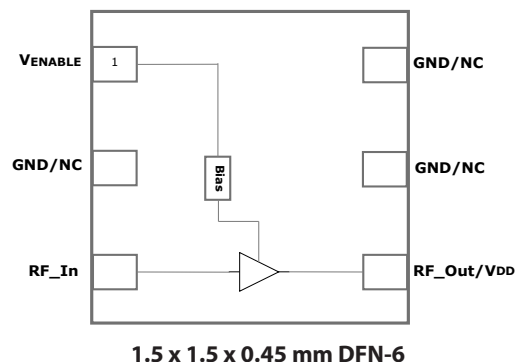
- Transmit/Receive Mixer for Linear, Low Power Applications

Features

- Integrated LO Buffer
- Broadband Tuning
- Low Power Consumption

GRF2013 Broadband High Linearity Gain Block

Tuning Range: 0.05 – 8.0 GHz



Applications

- Linear Driver
- IF Amplifier
- LNA

Features

- Low Noise Figure
- Flat Gain
- Flexible Bias Voltage and Current
- Internally Matched to 50 Ω

Part Number	Reference	Gain (dB)	OP1dB (dBm)	OIP3 (dBm)	Noise Figure (dB)
GRF7001*	3 V/10 mA/RF: 800 MHz; Lo: 965 MHz; IF: 165 MHz	-6.0	>23.0	30.0	7.0
GRF2013	5 V/90 mA/1.9 GHz 3 V/35 mA/400 MHz	18.5 20.5	22.5 17.5	38.5 30.5	1.3 1.3
GRF5511	5 V/130 mA/2.5 GHz 5 V/100 mA/5.5 GHz	20.1 15.4	26.0 25.8	39.6 44.0	1.5 1.7
GRF2133	5 V/60 mA/700 MHz 5 V/60 mA/1950 MHz	40.0 28.0	20.0 20.0	31.0 31.0	0.7 0.6

* Sampling now, production Q3 2018.

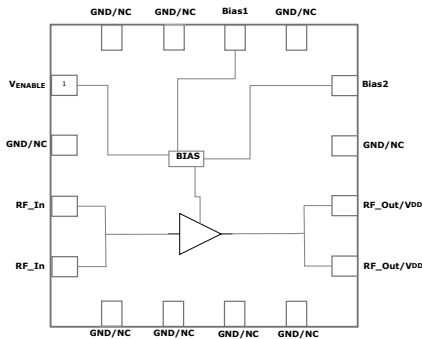
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GRF5511 High Frequency Power-LNA™

Tuning Range: 0.7 – 6.0 GHz



3.0 x 3.0 x 0.85 mm QFN-16

Applications

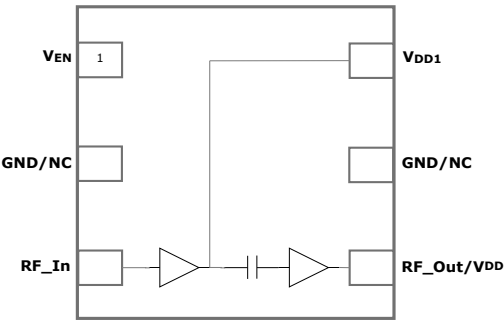
- PA/Driver for 802.11ac
- Linear Driver Amplifier for High PAR Waveforms
- Microwave Backhaul

Features

- Flexible Bias Voltage and Current
- Outstanding Gain and Linearity to 6 GHz

GRF2133 Ultra-High Gain LNA

Tuning Range: 0.1 – 2.7 GHz



1.5 x 1.5 x 0.45 mm DFN-6

Applications

- Cellular Boosters / Repeaters
- Linear Driver Amplifier

Features

- Internally Matched
- Unconditionally Stable
- Flexible Bias Voltage and Current

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Broadband Linear LNAs/Drivers

Part Number	Tuning Range (GHz)	Reference Conditions	Gain (dB)	EVN NF (dB)	OP1dB (dBm)	OIP3 (dBm)	Vdd Range (V)	Idd Range (mA)	Package (mm)	Features
GRF2105	0.4 - 5.0	2.5 GHz 5.0 V; 70 mA	20.5	0.75	22.5	37.0	2.7 - 5.0	20 - 90	1.5 x 1.5 x 0.45 DFN-6	Enhanced gain flatness
GRF2133	0.1 - 6.0	1.9 GHz 5.0 V; 60 mA	28.5	0.65	20.0	31.0	1.8 - 5.0	35 - 120	1.5 x 1.5 x 0.45 DFN-6	Ultra-high gain/ flexible bias
GRF4001	0.1 - 5.0	2.5 GHz 3.3 V; 45 mA	15.5	0.90	16.5	30.5	1.8 - 5.0	15 - 50	1.5 x 1.5 x 0.45 DFN-6	Internal match/ flexible bias
GRF4002	0.1 - 3.8	1.9 GHz 5.0 V; 70 mA	17.5	0.80	23.5	36.0	1.8 - 5.0	20 - 80	1.5 x 1.5 x 0.45 DFN-6	Internal match/ flexible bias
GRF4003	0.1 - 3.8	1.9 GHz 5.0 V; 95 mA	15.0	0.80	24.5	41.0	1.8 - 5.0	20 - 120	1.5 x 1.5 x 0.45 DFN-6	Internal match/ flexible bias
GRF4004	0.1 - 3.8	1.9 GHz 5.0 V; 135 mA	14.5	0.85	26.0	43.0	1.8 - 5.0	30 - 150	1.5 x 1.5 x 0.45 DFN-6	Minimal matching/ flexible bias
GRF4005	0.1 - 3.8	1.9 GHz 5.0 V; 170 mA	15.0	0.80	26.5	42.0	1.8 - 5.0	50 - 200	1.5 x 1.5 x 0.45 DFN-6	Minimal matching/ flexible bias
GRF4014	0.1 - 6.0	2.5 GHz 5.0 V; 60 mA	16.5	0.80	24.3	39.0	2.7 - 8.0	30 - 120	1.5 x 1.5 x 0.45 DFN-6	Power/low noise; flexible bias

Low Current LNAs/Drivers for General Purpose

Part Number	Tuning Range (GHz)	Reference Conditions	Gain (dB)	EVN NF (dB)	OP1dB (dBm)	OIP3 (dBm)	Vdd Range (V)	Idd Range (mA)	Package (mm)	Features
GRF2100	0.1 - 3.8	2.5 GHz 3.3 V; 15 mA	16.5	0.8	10.0	19.0	1.8 - 5.0	8 - 30	1.5 x 1.5 x 0.45 DFN-6	Flexible bias standard pinout
GRF2106	0.1 - 4.2	2.5 GHz 3.3 V; 15 mA	20.5	0.8	12.0	26.0	2.7 - 5.0	8 - 30	1.5 x 1.5 x 0.45 DFN-6	Flexible bias standard pinout
GRF2373	0.1 - 3.8	1.9 GHz 3.3 V; 15 mA	18.5	1.2	12.5	25.0	2.7 - 5.0	10 - 25	1.5 x 1.5 x 0.45 DFN-6	Flexible bias standard pinout

LNAs/Drivers with Bypass/Failsafe Bypass

Part Number	Tuning Range (GHz)	Reference Conditions	Gain (dB)	EVN NF (dB)	OP1dB (dBm)	OIP3 (dBm)	Vdd Range (V)	Idd Range (mA)	Package (mm)	Features
GRF2077*	0.7 - 3.8	2.5 GHz 5.0 V; 70 mA	17.0	0.90	22.0	40.0	2.7 - 5.0	20 - 90	2.0 x 2.0 x 0.75 DFN-8	Failsafe bypass
GRF2140	0.1 - 3.8	1.9 GHz 3.3 V; 15 mA	18.0	1.1	9.0	20.0	1.8 - 5.0	8 - 30	1.5 x 1.5 x 0.45 DFN-6	Low loss bypass; standard pinout
GRF2374	0.1 - 4.2	1.9 GHz 3.3 V; 15 mA	16.5	1.3	10.0	22.0	2.7 - 5.0	8 - 30	1.5 x 1.5 x 0.45 DFN-6	Low loss bypass; standard pinout
GRF4042	0.1 - 3.8	1.9 GHz 5.0 V; 70 mA	16.0	1.0	22.0	36.0	1.8 - 5.0	15 - 80	2.0 x 2.0 x 0.50 QFN-12	Low loss bypass; standard pinout
GRF4142	0.1 - 3.8	1.9 GHz 3.3 V; 50 mA	15.3	0.9	19.5	33.0	1.8 - 5.0	15 - 80	1.5 x 1.5 x 0.45 DFN-6	Low loss bypass; standard pinout

* Pre-production, sampling now.

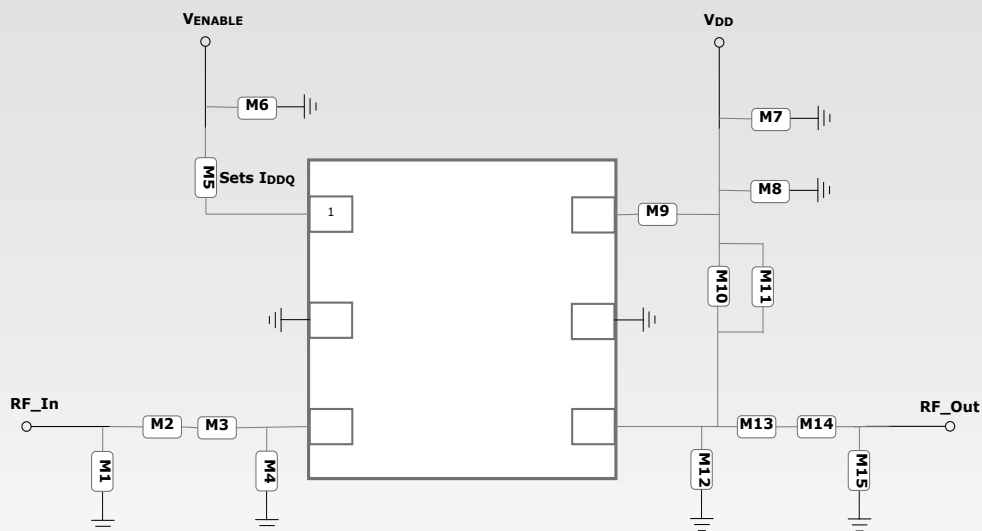
DFN-6 Package Portfolio with Common Pin Out

Guerrilla RF's DFN-6 package product portfolio includes a wide range of gain, linearity, NF and bypass capability using a single layout. This rapidly growing family effectively creates a modular RF design system, including single-stage, two-stage, bypass and failsafe bypass devices.

DFN-6 Package Product Portfolio

Part Number	Product Description
GRF2003, GRF2004	Broadband Gain Block to X-Band
GRF2012, GRF2013, GRF2014	Flat Gain, High Linearity Gain Block
GRF2100	Low NF, Low Current Amplifier
GRF2105	Broadband, Linear LNA
GRF2106, GRF2133*	Ultra-high Gain, Low NF Amplifier
GRF2140	Low NF, Low Current Amplifier with Bypass
GRF2373	High Gain, Low Noise, Linear Driver
GRF2374	High Gain, Low Noise, Linear Driver with Bypass
GRF2505	High Linearity, Low Noise Driver
GRF4001	Broadband LNA/Linear Driver
GRF4002, GRF4003, GRF4004, GRF4005, GRF4014	Broadband LNA/High Linearity Driver
GRF4142	Broadband LNA/High Linearity Driver with Bypass

* Pin 6: NC/GND except for GRF2133 (Pin 6: Vdd2).



Generic Schematic

WLAN LNAs/Drivers

Part Number	Tuning Range (GHz)	Reference Conditions	Gain (dB)	EVN NF (dB)	OP1dB (dBm)	OIP3 (dBm)	Vdd Range (V)	Idd Range (mA)	Package (mm)	Features
GRF2101	4.0 - 7.0	5.5 GHz 3.3 V; 18 mA	18.0	0.90	10.0	22.0	2.7 - 5.0	10 - 30	1.5 x 1.5 x 0.45 DFN-6	High gain; low noise
GRF2201	0.4 - 3.8	2.45 GHz 3.3 V; 15 mA	20.5	0.80	12.0	26.0	2.7 - 5.0	10 - 30	1.5 x 1.5 x 0.45 DFN-6	High gain; low noise
GRF2501	4.9 - 6.0	5.5 GHz 3.3 V; 15 mA	16.0	1.0	7.0	18.0	2.7 - 5.0	10 - 30	1.5 x 1.5 x 0.45 DFN-6	High gain; low noise
GRF2505	4.0 - 6.0	5.5 GHz 5.0 V; 40 mA	12.5	1.2	19.0	30.0	2.7 - 5.0	15 - 50	1.5 x 1.5 x 0.45 DFN-6	High linearity; low noise
GRF2541	4.9 - 6.0	5.5 GHz 3.3 V; 18 mA	16.0	1.2	5.0	16.0	2.7 - 5.0	10 - 30	1.5 x 1.5 x 0.45 DFN-6	High gain; low noise; bypass
GRF2543*	4.9 - 6.0	5.5 GHz 3.3 V; 15 mA	14.5	1.0	12.5	25.5	2.7 - 5.0	10 - 30	1.5 x 1.5 x 0.45 DFN-6	High gain, low noise, bypass

* Pre-production, sampling now.

High Frequency Gain Blocks/LNAs: 10 MHz to X-Band

Part Number	Tuning Range (GHz)	Reference Conditions	Gain (dB)	EVN NF (dB)	OP1dB (dBm)	OIP3 (dBm)	Vdd Range (V)	Idd Range (mA)	Package (mm)	Features
GRF2003	0.05 - 10.0	5.5 GHz 5.0 V; 55 mA	12.0	3.8	15.0	29.0	3.0 - 5.0	40 - 80	1.5 x 1.5 x 0.45 DFN-6	Flat gain; internal match
GRF2004	0.05 - 10.0	4.0 GHz 5.0 V; 100 mA	16.5	1.9	18.0	31.0	3.0 - 5.0	60 - 120	1.5 x 1.5 x 0.45 DFN-6	Flat gain; internal match
GRF2012	0.05 - 3.8	0.9 GHz 5.0 V; 90 mA	14.8	2.7	23.0	40.0	2.7 - 5.0	15 - 100	1.5 x 1.5 x 0.45 DFN-6	Flat gain; high linearity
GRF2013	0.05 - 5.0	1.9 GHz 5.0 V; 90 mA	18.5	1.3	22.5	38.5	2.7 - 5.0	15 - 100	1.5 x 1.5 x 0.45 DFN-6	Flat gain; high linearity, low NF
GRF2014	0.05 - 3.8	0.9 GHz 5.0 V; 150 mA	15.9	3.4	24.0	43.5	2.7 - 5.0	50 - 180	1.5 x 1.5 x 0.45 DFN-6	Flat gain; high linearity
GRF2710	8.0 - 13.0	11 GHz; 5.0 V; 25 mA	13.9	2.1	13.0	21.0	3.0 - 8.0	20 - 40	1.5 x 1.5 x 0.45 DFN-6	High gain; low noise; flexible bias
GRF3042	0.01 - 13.0	4.0 GHz 45 mA	14.3	3.0	14.0	26.0	≥ 7.0	35 - 60	1.5 x 1.5 x 0.45 DFN-6	Flat gain; internal match
GRF3044	0.01 - 120	4.0 GHz 100 mA	16.6	1.8	19.8	31.5	≥ 7.0	60 - 120	1.5 x 1.5 x 0.45 DFN-6	Flat gain; internal match

Up/Downconverter with Integrated LO Buffer

Part Number	RF/IF (GHz)	LO (GHz)	LO Drive (dBm)	Typ. Conv. Loss (dB)	Typ. IP1dB (dBm)	Typ. IIP3 (dBm)	Vdd Range (V)	Idd Range (mA)	Package (mm)	Features
GRF7001*	0.1 - 5.0	0.1 - 4.0	0.0	6.0	>17.0	25.0	3.0 - 5.0	10 - 30	1.5 x 1.5 x 0.45 DFN-6	Linear mixer for Tx or Rx

* Sampling now, production Q3 2018.

Failsafe SPDT Switch

Part Number	Frequency Range (GHz)	Reference Conditions	Insertion Loss (dB)	Failsafe Loss (dB)	IP1dB (dBm)	IIP3 (dBm)	Vdd Range (V)	Idd (mA)	Package (mm)	Features
GRF6011	0.1 - 3.8	1.9 GHz; 3.3 V (RFC to RF1) (RFC to RF2)	0.45 0.35	23 0.4	32.0 30.5	49.5 51.0	3.0 - 5.0	<1.0	1.5 x 1.5 x 0.45 DFN-6	RF2: Failsafe low loss

Ultra-LNAs™

Part Number	Tuning Range (GHz)	Reference Conditions	Gain (dB)	EVN NF (dB)	OP1dB (dBm)	OIP3 (dBm)	Vdd Range (V)	Idd Range (mA)	Package (mm)	Features
GRF2051	0.4 - 2.7	1.9 GHz 5.0 V; 70 mA	19.0	0.37	21.0	36.0	2.7 - 5.0	20 - 90	2.0 x 2.0 x 0.5 QFN-12	Flexible bias
GRF2052	1.7 - 4.5	2.5 GHz 5.0 V; 70 mA	19.2	0.50	21.0	38.0	2.7 - 5.0	20 - 90	2.0 x 2.0 x 0.5 QFN-12	Flexible bias
GRF2070	0.4 - 1.5	0.9 GHz 5.0 V; 70 mA	21.2	0.38	20.5	39.0	2.7 - 5.0	20 - 90	2.0 x 2.0 x 0.75 DFN-8	Flexible bias standard pinout
GRF2080	0.4 - 1.5	0.9 GHz 5.0 V; 70 mA	21.2	0.42	18.5	38.5	2.7 - 5.0	35 - 70	2.0 x 2.0 x 0.75 DFN-8	Digital shutdown standard pinout
GRF2071	0.7 - 2.7	1.9 GHz 5.0 V; 60 mA	19.0	0.36	21.0	36.0	2.7 - 5.0	20 - 90	2.0 x 2.0 x 0.75 DFN-8	Flexible Iddq standard pinout
GRF2081	1.4 - 2.7	1.9 GHz 5.0 V; 70 mA	18.5	0.41	19.5	37.5	2.7 - 5.0	35 - 70	2.0 x 2.0 x 0.75 DFN-8	Digital shutdown standard pinout
GRF2072	2.3 - 3.8	2.5 GHz 5.0 V; 70 mA	19.8	0.55	20.0	37.5	2.7 - 5.0	20 - 90	2.0 x 2.0 x 0.75 DFN-8	Flexible Iddq standard pinout
GRF2082	1.9 - 3.8	2.5 GHz 5.0 V; 70 mA	19.0	0.55	20.5	38.0	2.7 - 5.0	35 - 70	2.0 x 2.0 x 0.75 DFN-8	Digital shutdown standard pinout
GRF2073	3.0 - 6.0	3600 MHz 5.0 V; 70 mA	18.6	0.65	18.0	35.0	2.7 - 5.0	20 - 100	2.0 x 2.0 x 0.75 DFN-8	High gain; flexible bias
GRF2083	3.0 - 6.0	3600 MHz 5.0 V; 70 mA	18.6	0.65	18.0	35.0	2.7 - 5.0	20 - 100	2.0 x 2.0 x 0.75 DFN-8	High gain; digital shutdown

Linear PAs/Power-LNAs™

Part Number	Tuning Range (GHz)	Reference Conditions	Gain (dB)	EVN NF (dB)	OP1dB (dBm)	OIP3 (dBm)	Vdd Range (V)	Idd Range (mA)	Package (mm)	Features
GRF5010	0.05 - 6.0	2.5 GHz 8.0 V; 95 mA 5.0 V; 60 mA	17.0 17.0	0.85 0.82	28.5 24.5	45.0 38.5	4.5 - 8.0	50 - 160	3.0 x 3.0 x 0.85 QFN-16	Power/ultra-low noise; flexible bias
GRF5020	0.1 - 6.0	2.5 GHz 8.0 V; 95 mA 5.0 V; 65 mA	18.0 17.3	0.85 0.80	29.0 24.5	43.0 37.2	4.5 - 10.0	50 - 200	3.0 x 3.0 x 0.85 QFN-16	Power/ultra-low noise; flexible bias
GRF5040	0.1 - 3.8	2.5 GHz 10.0 V; 170 mA 8.0 V; 130 mA	15.0 15.0	0.85 0.80	31.0 29.8	47.0 46.3	4.5 - 10.0	100 - 250	3.0 x 3.0 x 0.85 QFN-16	Power/ultra-low noise; flexible bias
GRF5109	0.4 - 1.5	0.83 GHz 5.0 V; 160 mA	19.0	1.30	28.5	43.5	2.7 - 5.0	50 - 200	3.0 x 3.0 x 0.85 QFN-16	5-Volt power/low noise
GRF5110	1.5 - 3.8	1.9 GHz 5.0 V; 160 mA	15.0	0.90	28.8	46.0	2.7 - 5.0	50 - 200	3.0 x 3.0 x 0.85 QFN-16	5-Volt power/low noise
GRF5115	0.1 - 2.7	1.9 GHz 5.0 V; 250 mA	15.0	1.40	33.0	45.0	2.7 - 5.0	100 - 300	3.0 x 3.0 x 0.85 QFN-16	5-Volt power/low noise
GRF5511	1.5 - 6.0	5.5 GHz 8.0 V; 150 mA 5.0 V; 100 mA	15.8 15.4	1.80 1.70	29.5 25.8	47.5 44.0	4.5 - 9.0	50 - 200	3.0 x 3.0 x 0.85 QFN-16	Power/low noise; flexible bias

Guerrilla Bloc™ Technology

Fully Integrated Ultra-Low Noise Amplifier, Driver and PA Modules

- Fully integrated modules with exception of current-setting resistor
- Internally matched to 50 ohms eliminating matching requirement
- Flexible bias voltage and current for optimal efficiency and linearity
- 4.0 x 4.0 x 0.75 mm thermally-efficient, plastic package

Guerrilla Bloc™ Fully Integrated, Low Current and Ultra-Low Noise Modules

Part Number	Frequency Range (GHz)	Reference Conditions	Gain (dB)	NF (dB)	OP1dB (dBm)	OIP3 (dBm)	Vdd Range (V)	Idd Range (mA)	Internally Matched (50 ohms)	Features
GRF2806	0.7 - 1.0	0.9 GHz 5.0 V; 15 mA	20.0	1.05	14.0	25.5	2.7 - 5.0	10 - 30	Yes	Cost-effective gain; low NF
GRF2807	1.6 - 2.5	1.9 GHz 5.0 V; 15 mA	18.2	0.80	13.4	23.0	2.7 - 5.0	10 - 30	Yes	Cost-effective gain; low NF
GRF2870	0.6 - 1.0	0.9 GHz 5.0 V; 70 mA	20.0	0.35	20.0	40.0	2.7 - 5.0	20 - 80	Yes	Ultra-low noise; high gain
GRF2871	1.5 - 2.2	1.9 GHz 5.0 V; 70 mA	19.5	0.40	19.0	37.5	2.7 - 5.0	20 - 80	Yes	Ultra-low noise; high gain
GRF2872	2.0 - 3.0	2.5 GHz 5.0 V; 70 mA	19.0	0.50	21.2	37.5	2.7 - 5.0	20 - 80	Yes	Ultra-low noise; high gain
GRF2873	3.0 - 4.2	3.6 GHz 5.0 V; 70 mA	16.8	0.65	18.8	37.0	2.7 - 5.0	20 - 80	Yes	Ultra-low noise; high gain

Guerrilla Bloc™ Fully Integrated Low Noise PA/Driver Modules

Part Number	Frequency Range (GHz)	Reference Conditions	Gain (dB)	NF (dB)	OP1dB (dBm)	OIP3 (dBm)	Vdd Range (V)	Idd Range (mA)	Internally Matched (50 ohms)	Features
GRF5810*	1.7 - 2.0	1.9 GHz 8.0 V; 130 mA 5.0 V; 100 mA	20.0 20.0	0.90 1.0	27.0 29.5	37.0 42.5	3.3 - 8.0	50 - 160	Yes	Failsafe bypass
GRF5812*	2.3 - 2.7	2.5 GHz 8.0 V; 100 mA 5.0 V; 70 mA	20.2 20.1	0.9 0.9	29.5 27.0	43.0 38.0	3.3 - 8.0	50 - 160	Yes	High power, high gain, low noise
GRF5813*	3.4 - 4.2	3.8 GHz 8.0 V; 130 mA 5.0 V; 100 mA	17.4 17.3	1.2 1.2	29.5 26.0	43.0 38.0	3.3 - 8.0	50 - 160	Yes	High power, high gain, low noise
GRF5814*	4.4 - 5.0	4.7 GHz 8.0 V; 130 mA 5.0 V; 100 mA	16.6 16.5	1.5 1.5	29.5 26.0	46.0 38.5	3.3 - 8.0	50 - 160	Yes	High power, high gain, low noise
GRF5815*	5.0 - 6.0	5.5 GHz 8.0 V; 130 mA 5.0 V; 100 mA	16.1 16.0	1.5 1.5	29.0 25.5	43.5 37.5	3.3 - 8.0	50 - 160	Yes	High power, high gain, low noise

* Pre-production, sampling Q3 2018.

Automotive Qualified (AEC-Q100) Products

Standard and Automotive Product Processes

Process	Standard Products	Automotive Products
Wafer Level and Assembly		
Wafer Automated Optical (Die) Inspection (AOI)	✓	✓
Wafer Process Control Monitor Test (PCM)	✓	✓
Processed in TS16949 Assembly Facility with Standard Flow - Optical Inspection (Sampling)	✓	✓
Reliability Tests.		
Qualification Follows JESD47 Methods	✓	N/A
Qualification Follows Applicable AEC-Q100 Methods, Including Qualification by Similarity	N/A	✓
Final Test, Tape and Reel		
100% RF Functional Test	✓	✓
Vision Inspection	✓	✓

AEC-Q100 Qualification Schedule

Product Qualifications in Progress	2018	
	Q3	Q4
Ultra-Low Noise Amplifier	GRF2073-W	
Broadband Low Noise Amplifier / Linear Driver	GRF4002-W	
High Linearity Gain Block		GRF2012-W

Additional Products Will be Qualified by Family

Part Numbers	Product Family
GRF207X-W	Ultra-Low Noise Amplifiers
GRF208X-W, GRF201X-W	Broadband Linear Gain Blocks
GRF400X-W	Broadband Low Noise Amplifiers / Linear Drivers

Note: -W suffix denotes AEC-Q100 automotive qualified device.

Sales Representatives

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