

ALUM RF

Product Overview

May 2022

Distribution
Partner



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Altum RF: Key Product Groups

- Distributed Amplifiers
- Power Amplifiers
- Low Noise / Driver Amplifiers
- Switches
- Integrated Front-End (5G mmWave)
- Attenuators (details on request)
- Phase Shifters (details on request)
- Core Chips (details on request)

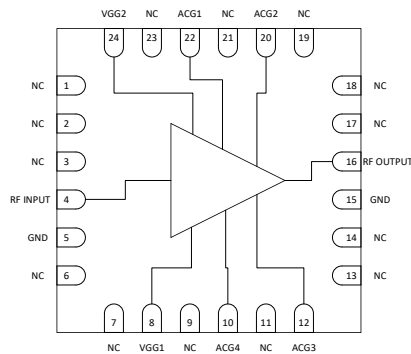
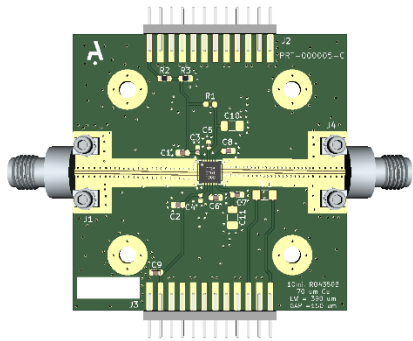


Distributed Amplifiers

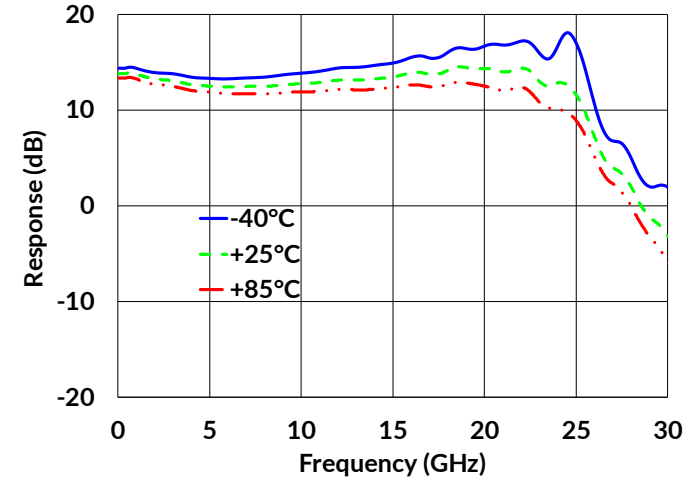
Distributed Amplifiers	Min. Frequency (GHz)	Max. Frequency (GHz)	Gain (dB)	P1dB (dBm)	P _{SAT} (dBm)	OIP3 (dBm)	Bias Voltage (V)	Bias Current (mA)	Package	Sampling
ARF1300Q4	0	24	13	21.5	23.6	30	10	130	4 × 4 QFN	NOW
ARF1301Q5	0	18	12.5	28	30	37.5	12	310	5 × 5 QFN	NOW
ARF1303	0	50	15	22		TBD	6	240	Bare Die	NOW
ARF1303Q6	0	46	15	22		TBD	6	240	6 × 6 QFN	Q2/Q3 2022
ARF1304Q5	0	26.5	15	23	25	33	10	150	5 × 5 QFN	NOW
ARF1306C5	2	18	15		34	38.5	24	450	5 × 5 Ceramic	NOW
ARF1306	2	20	16		34.5	TBD	24	450	Bare Die	NOW
ARF1307C7	2	20	18	35	40	42.5	28	950	7 × 7 Ceramic	NOW
ARF1307	2	20	18	35	40	TBD	28	950	Bare Die	NOW
ARF1312Q6	0	26.5	15	29.5	32	TBD	20	460	6 × 6 QFN	NOW

ARF1300Q4

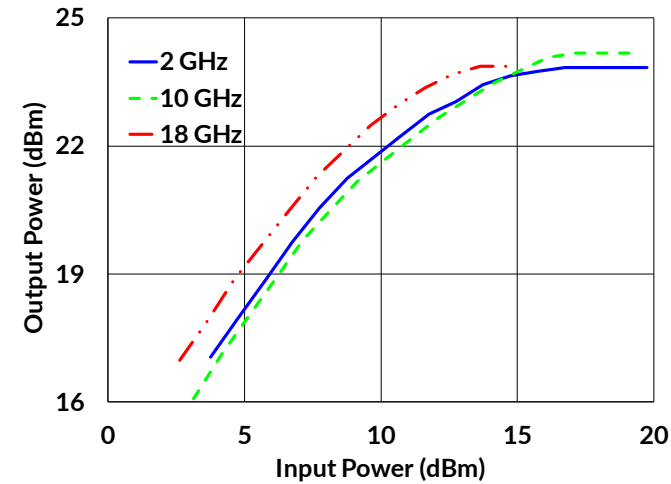
- DC - 24 GHz Distributed Amplifier
- 13 dB Gain
- 23.6 dBm Output P_{SAT}
- > 10 dB Input/Output Return Loss
- 30 dBm Output IP3
- 4 mm x 4 mm QFN Package



samples and eval boards available now



Gain

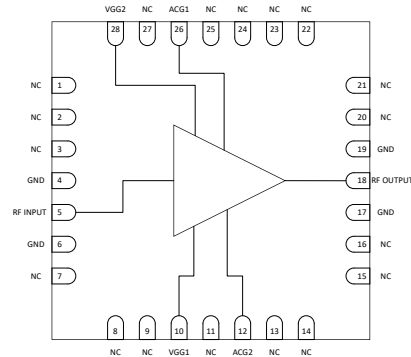
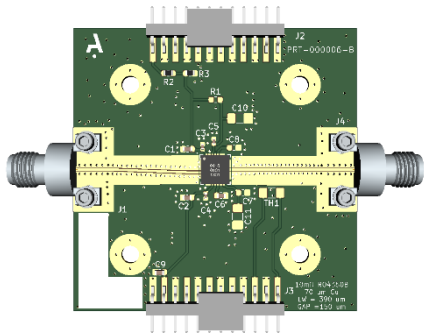


Output Power

EAR99

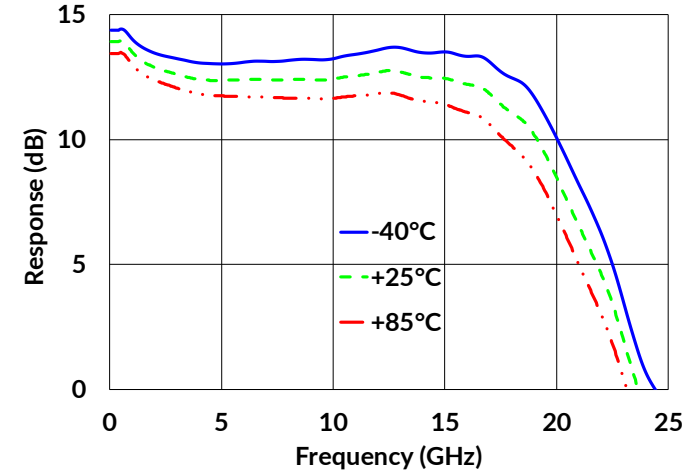
ARF1301Q5

- DC - 18 GHz Distributed Amplifier
- 12.5 dB Gain
- 30 dBm Output P_{SAT}
- > 10 dB Input/Output Return Loss
- 37.5 dBm Output IP3
- 5 mm x 5 mm QFN Package

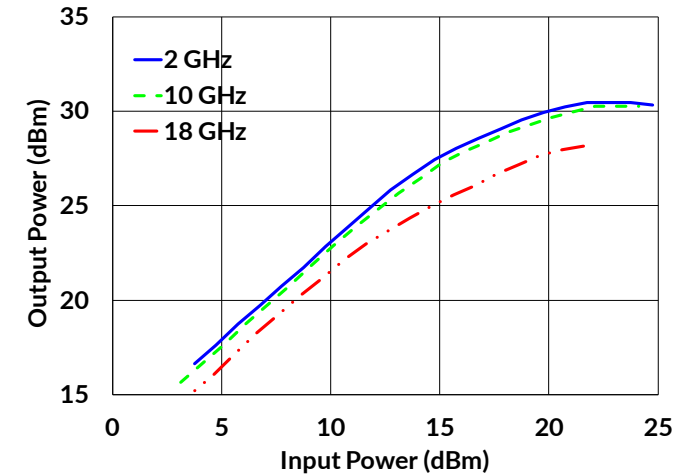


EAR99

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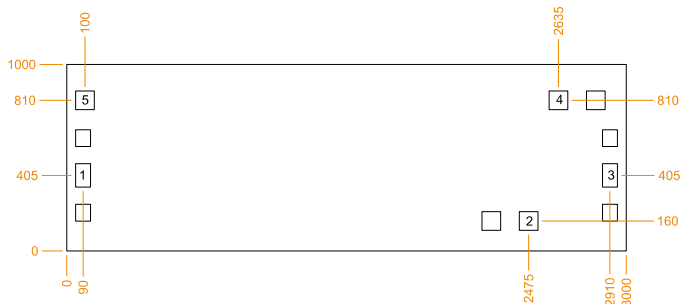
Gain



Output Power

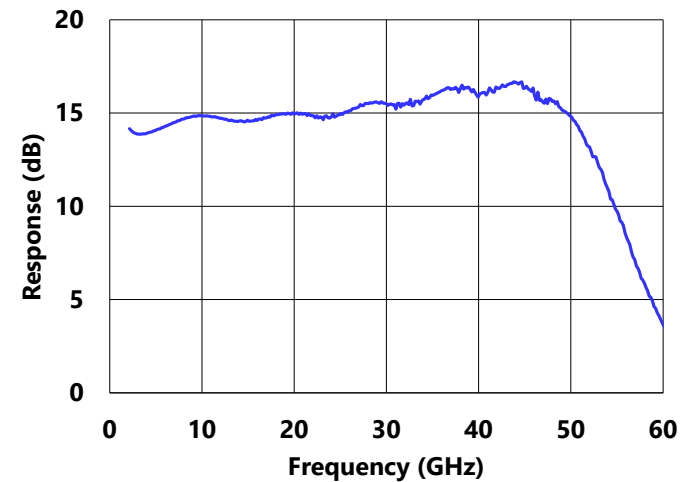
ARF1303

- DC - 50 (46) GHz Distributed Amplifier
- 15 dB Gain
- 22 dBm Output P1dB at 25 GHz
- > 10 dB Input and Output Return Loss
- 6V, 240 mA
- Bare die

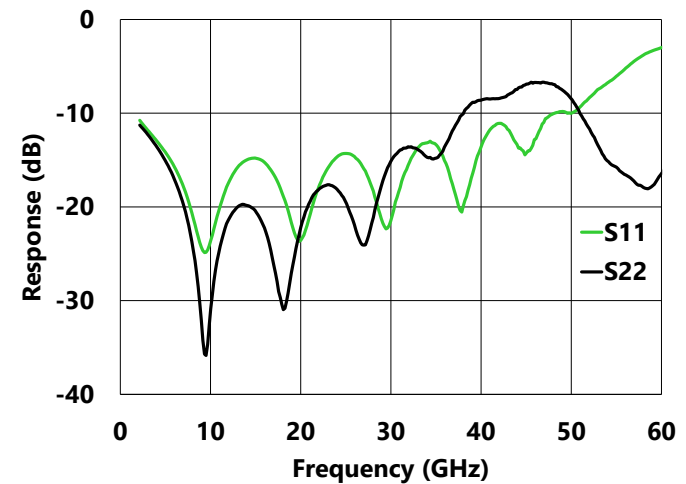


Dual-use, end-use statement required.

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Gain*

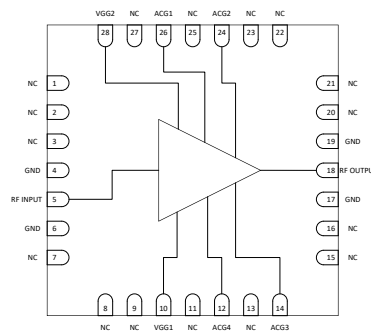
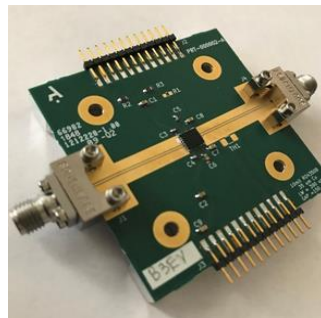


Return Loss*

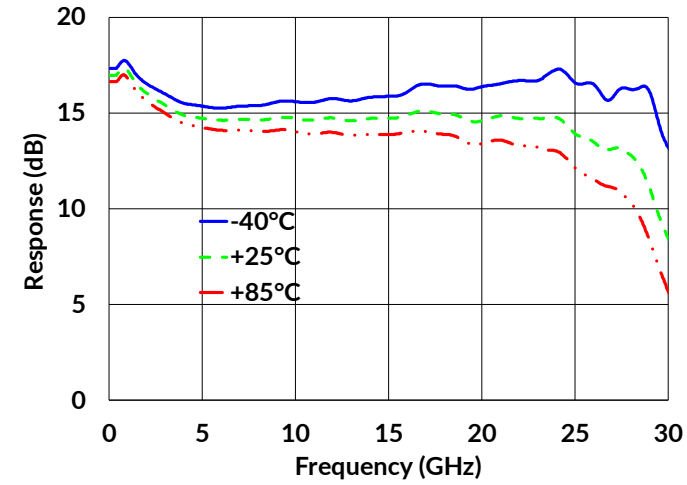
*uncompensated, on-wafer measurement

ARF1304Q5

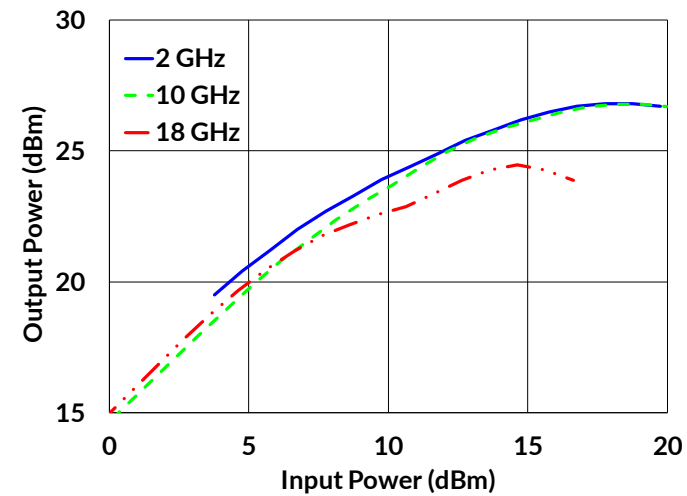
- DC - 26.5 GHz Distributed Amplifier
- 15 dB Gain
- 25 dBm Output P_{SAT}
- > 12 dB Input/Output Return Loss
- 33 dBm Output IP3
- 5 mm x 5 mm QFN Package



samples and eval boards available now



Gain

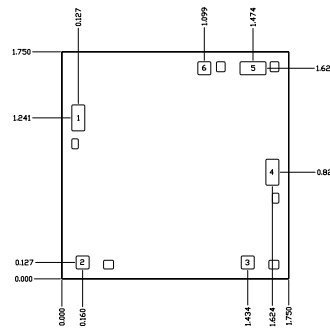
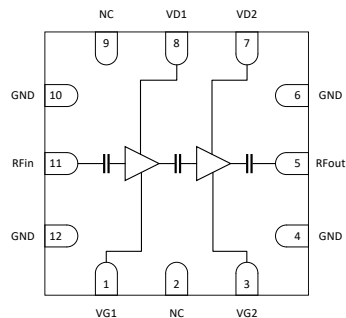
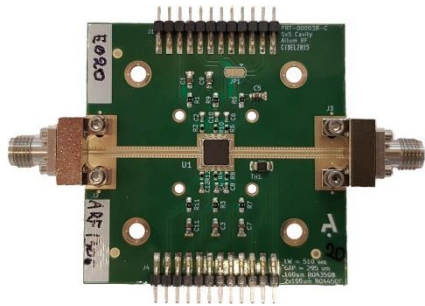


Output Power

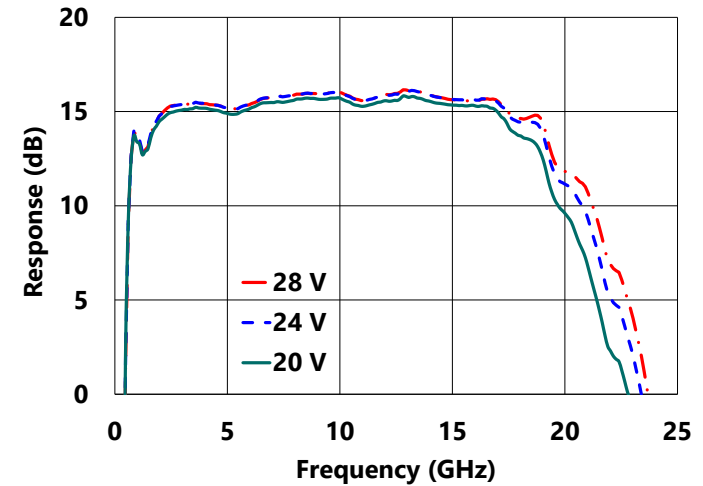
EAR99

ARF1306(C5)

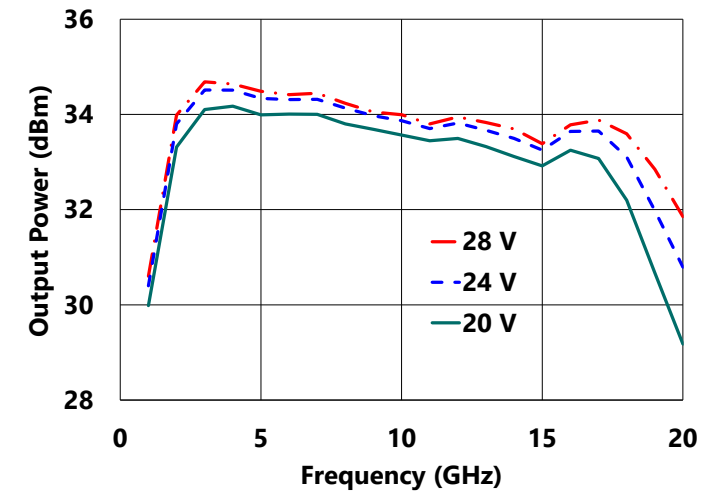
- 2 - 18 GHz Distributed Amplifier
- 15 dB Small-Signal Gain
- 34 dBm Output P_{SAT}
- 10 dB Power Gain
- >12 dB Input/Output Return Loss
- 5 mm x 5 mm Ceramic Package or Bare Die



samples and eval boards available now



Gain

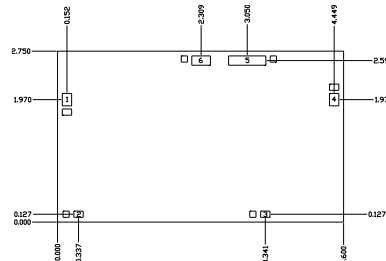
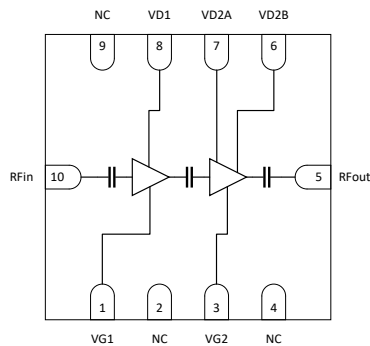
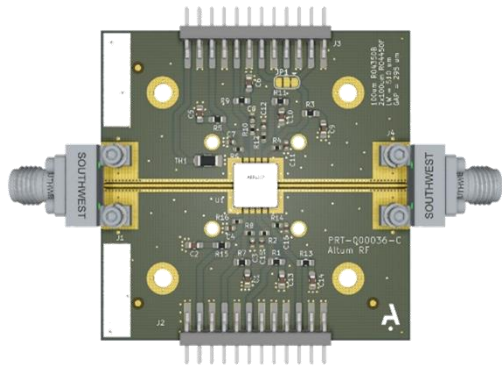


Output Power

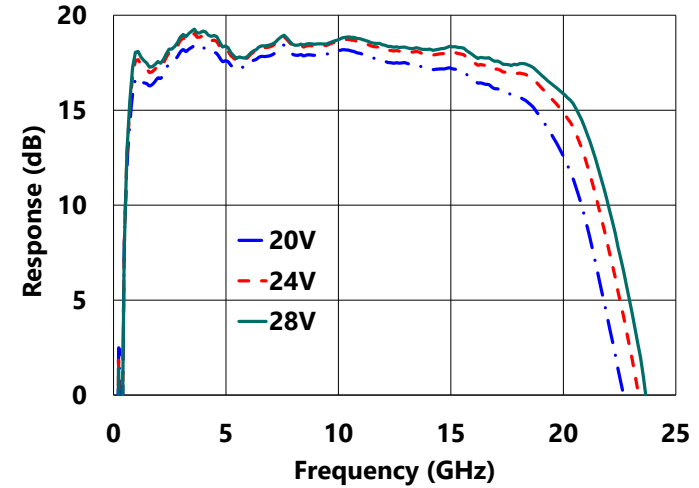
EAR99

ARF1307(C7)

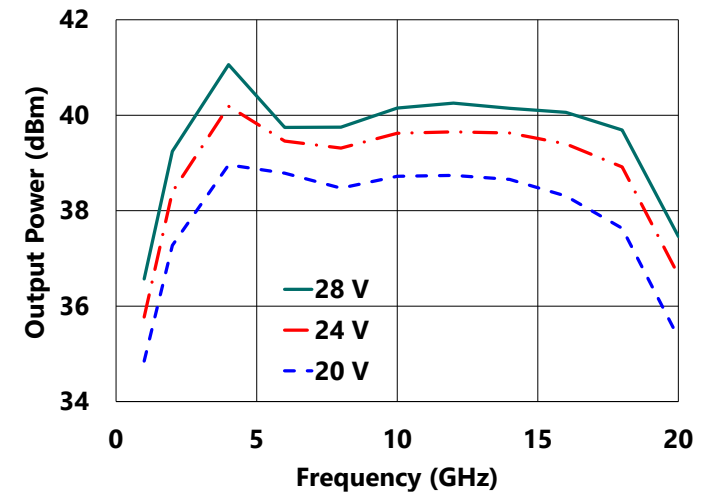
- 2 - 20 GHz Distributed Amplifier
- 18 dB Small Signal Gain
- 40 dBm Output P_{SAT}
- >15 dB Input/Output Return Loss
- 20 % PAE
- 7 mm x 7 mm Ceramic Package or Bare Die



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Gain

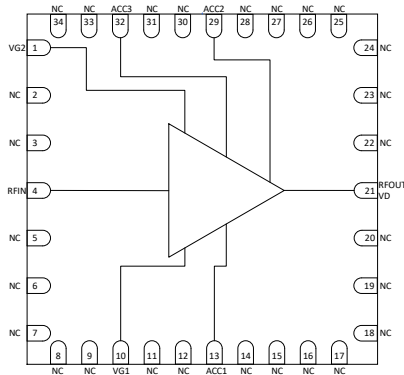
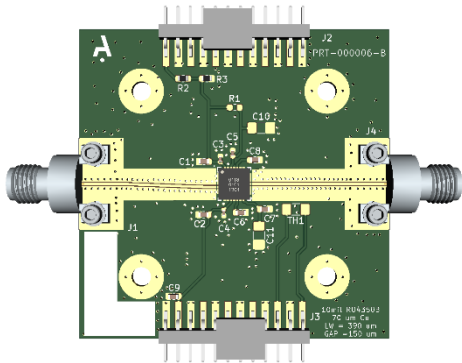


Output Power

Dual-use, end-use statement required.

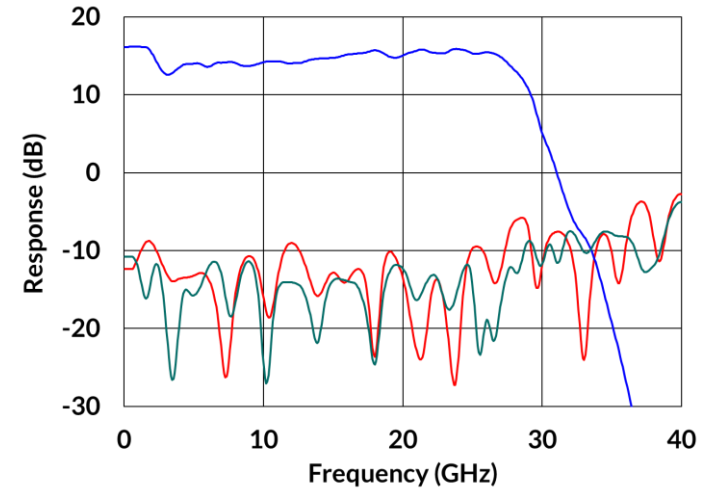
ARF1312Q6

- DC – 26.5 GHz Distributed Amplifier
- 15 dB Small Signal Gain
- 32 dBm Output P_{SAT} at 10 GHz
- > 10 dB Input and Output Return Loss
- 6 mm x 6 mm QFN Package

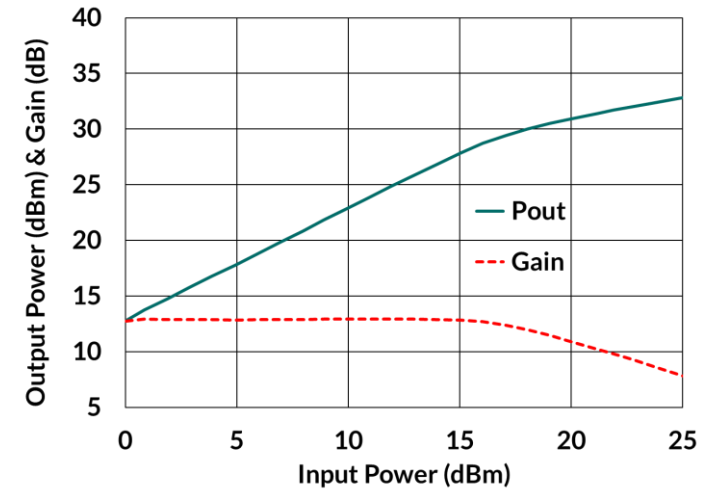


EAR99

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Gain, S_{11} , S_{22}



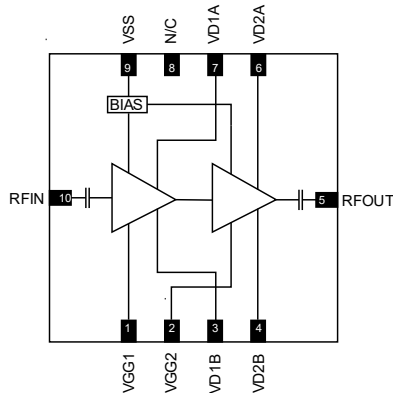
Gain and Power at 10 GHz

Power Amplifiers, X-band

Power Amplifier	Min. Frequency (GHz)	Max. Frequency (GHz)	Gain (dB)	P1dB (dBm)	P _{SAT} (dBm)	OIP3 (dBm)	Bias Voltage (V)	Bias Current (mA)	Package	Sampling
ARF1001C7	8	11	25	36	37	TBD	-5/8	1450	7 x 7 Ceramic	NOW
ARF1002C7	8	11	24	39	40	TBD	-5/8	2800	7 x 7 Ceramic	NOW
ARF1003C7	8.5	10.5	18	41	42	TBD	-5/8	4500	7 x 7 Ceramic	NOW
ARF1009Q5	9	11	42	38	40	45	-1.8/24	200	5 x 5 QFN	NOW
ARF1020Q5	9	11	28	39	40	45	-1.8/24	180	5 x 5 QFN	NOW
ARF1021Q5	9	12	29	36	39.5	42	-1.8/24	100	5 x 5 QFN	Q2/Q3 2022
ARF1022Q4	8	12	30	33	37	40	-1.5/24	80	4 x 4 QFN	Q2/Q3 2022

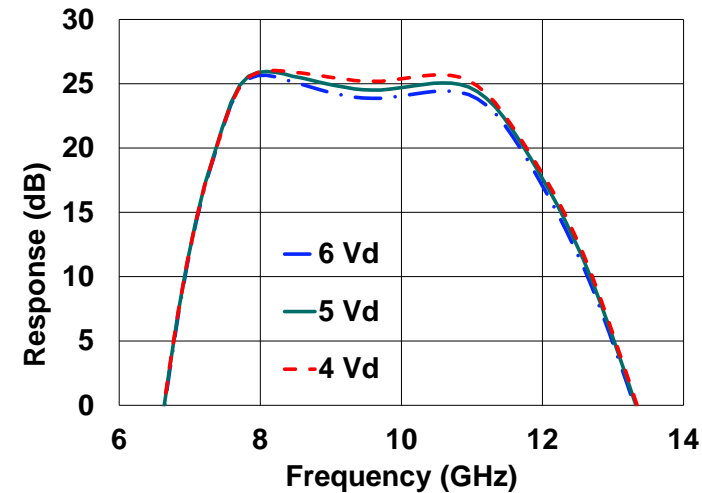
ARF1001C7

- 8 - 11 GHz Power Amplifier
- 37 dBm Output P_{SAT}
- 40% PAE
- 25 dB Small-Signal Gain
- >10 dB Input/Output Return Loss
- 7 mm x 7 mm Ceramic Package

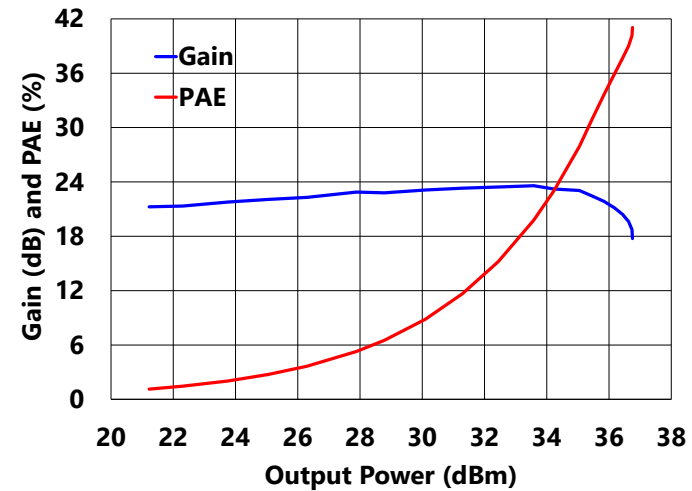


Dual-use, end-use statement required.

samples and eval boards available



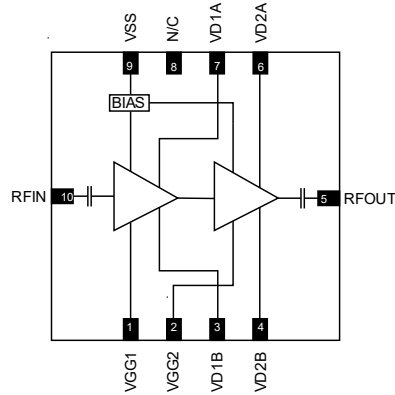
Gain (CW)



Power Gain
PAE at 10 GHz
(CW)

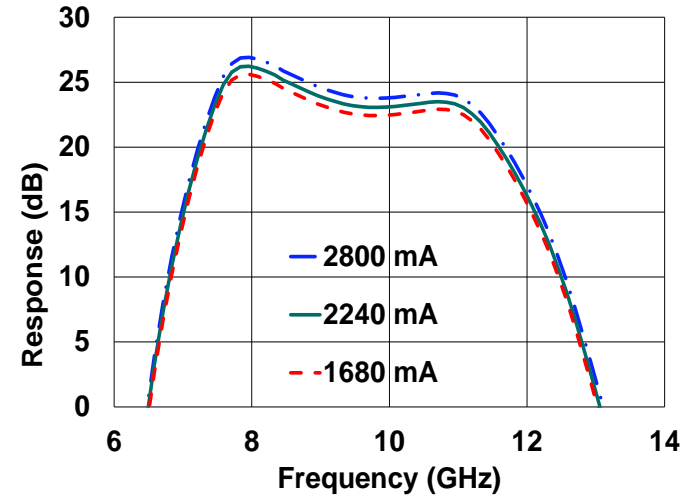
ARF1002C7

- 8 - 11 GHz Power Amplifier
- 40 dBm Output P_{SAT}
- 39% PAE
- 24 dB Small-Signal Gain
- >10 dB Input/Output Return Loss
- High-Performance 7 × 7 mm Ceramic Package

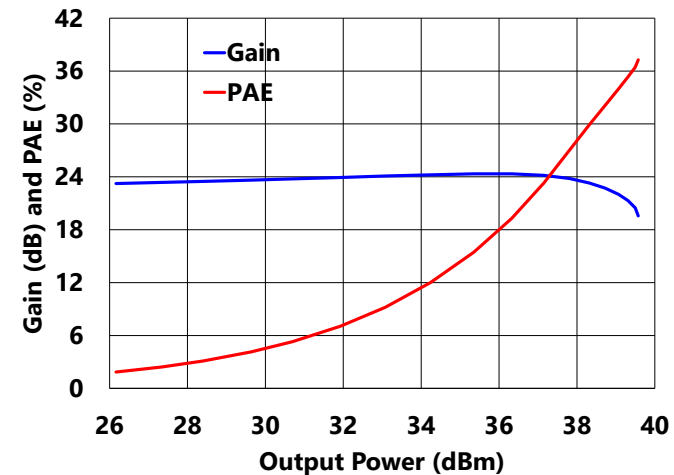


Dual-use, end-use statement required.

samples and eval boards available



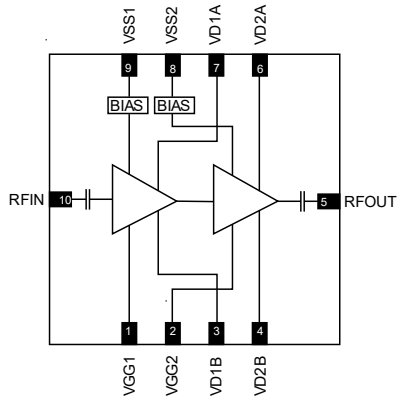
Gain (CW)



Power Gain
PAE at 10 GHz
(CW)

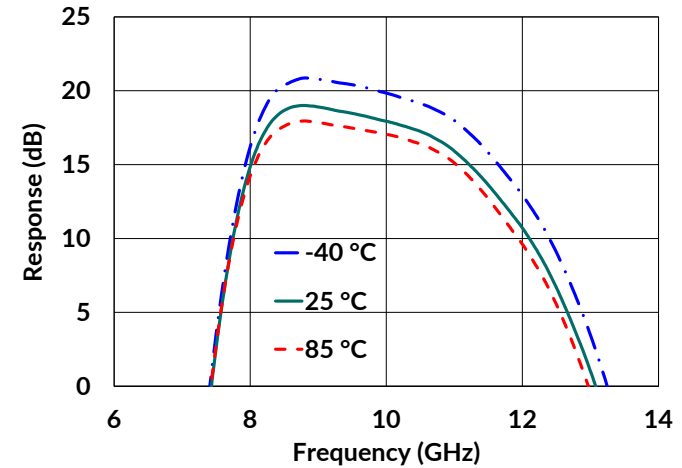
ARF1003C7

- 8.5 - 10.5 GHz Power Amplifier
- 42 dBm Output P_{SAT}
- 37% PAE
- 18 dB Small-Signal Gain
- >10 dB Input and Output Return Loss
- High-Performance 7 × 7 mm Ceramic Package

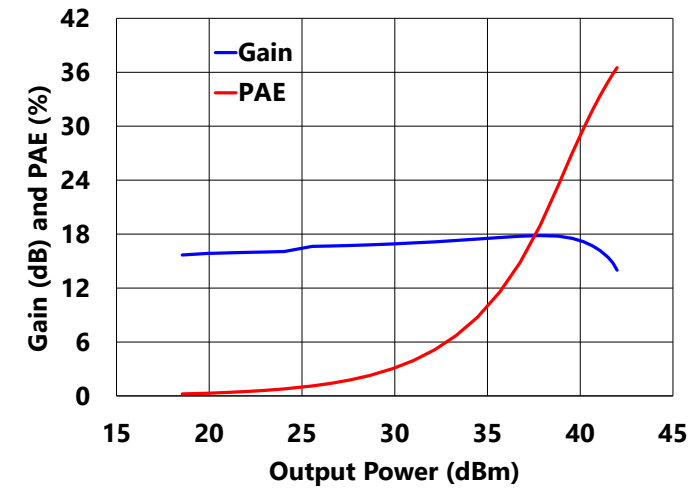


Dual-use, end-use statement required.

samples and eval boards available



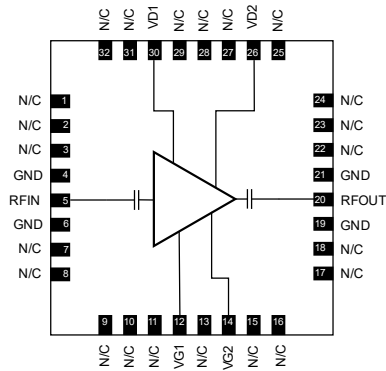
Gain (CW)



Power Gain
PAE at 10 GHz
(CW)

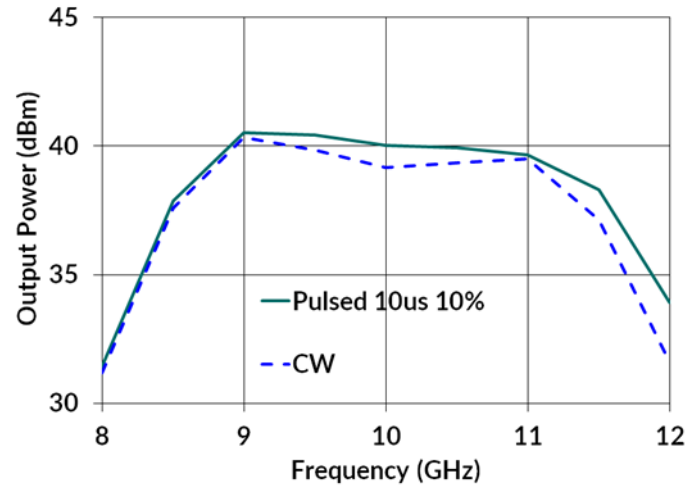
ARF1009Q5

- 9 – 11 GHz Power Amplifier
- 40 dBm Output PSAT at 30 dB Power Gain
- 40 % PAE
- 5 mm x 5 mm 32L QFN Package
- 20 – 26 V Operation
- Also available as bare die

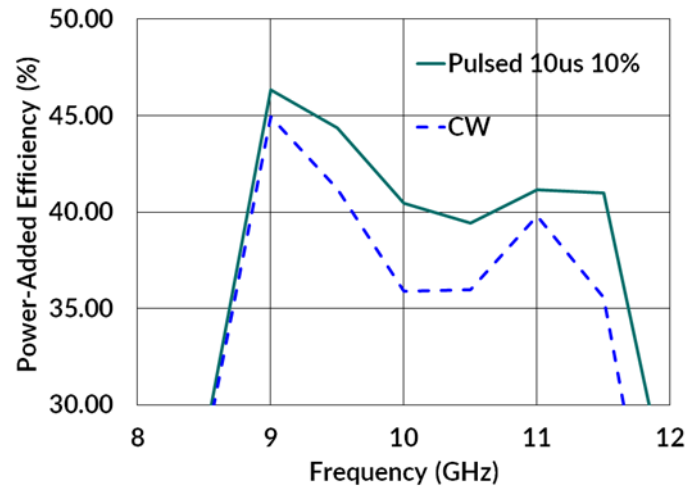


Dual-use, end-use statement required.

samples and eval boards available



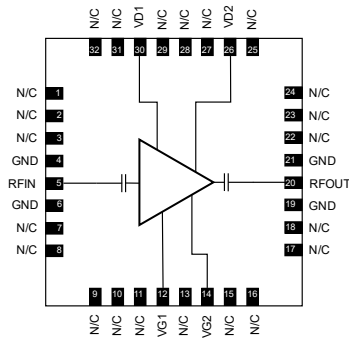
Output power
 $P_{IN} = 10 \text{ dBm}$
 $V_D = 22\text{V}$,
 $IDQ = 150\text{mA}$



PAE
 $P_{IN} = 10 \text{ dBm}$
 $V_D = 22\text{V}$,
 $IDQ = 150\text{mA}$

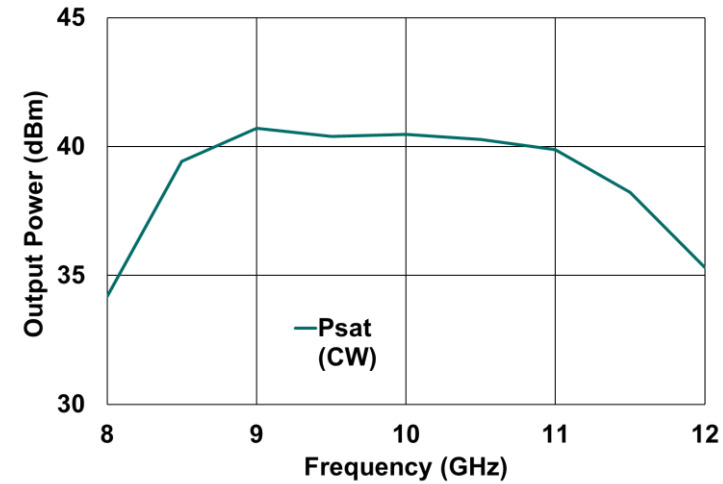
ARF1020Q5

- 9 – 11 GHz Power Amplifier
- 40 dBm Output PSAT at 20 dB Power Gain
- 42 % PAE
- 5 mm x 5 mm 32L QFN Package
- 20 – 26 V Operation
- Also available as bare die

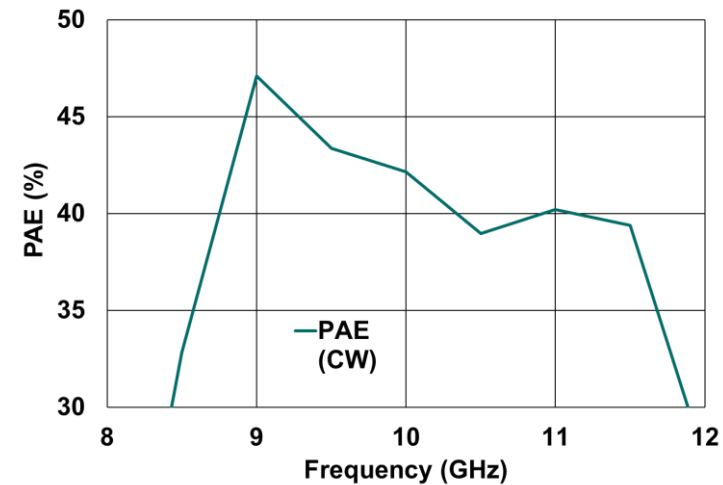


Dual-use, end-use statement required.

samples and eval boards available



Output power*
 $P_{IN} = 20$ dBm
 $V_D = 22$ V,
 $IDQ = 144$ mA



PAE*
 $P_{IN} = 20$ dBm
 $V_D = 22$ V,
 $IDQ = 144$ mA

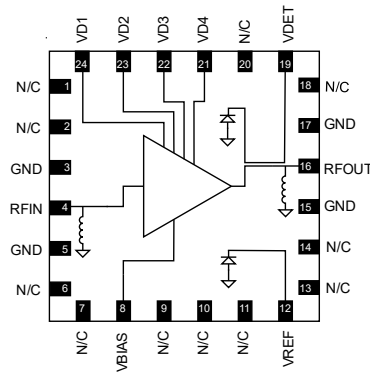
*bare die performance shown

Power Amplifiers, K, Ka-band

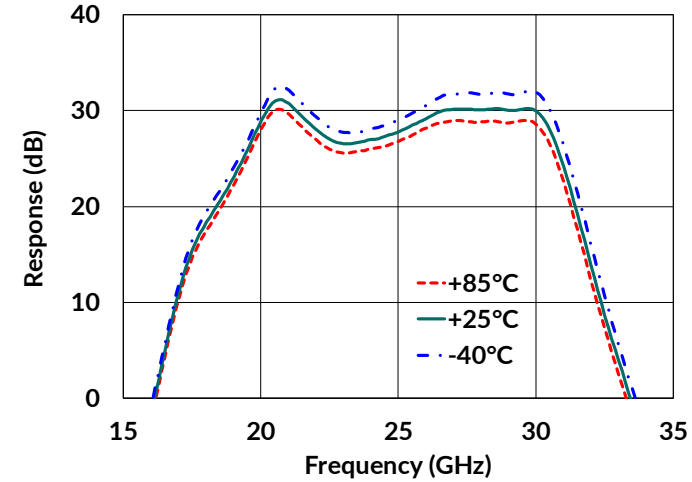
Power Amplifier	Min. Frequency (GHz)	Max. Frequency (GHz)	Gain (dB)	P1dB (dBm)	P _{SAT} (dBm)	OIP3 (dBm)	Bias Voltage (V)	Bias Current (mA)	Package	Sampling
ARF1010Q4	22	30	28	27	29.5	36	4	600	4 x 4 QFN	NOW
ARF1026Q4	22	31.5	28	27	29.5	36	4	600	4 x 4 QFN	Q2/Q3 2022
ARF1106Q4	24	31.5	28	24	27	TBD	4	300	4 x 4 QFN	Q2/Q3 2022
ARF1012Q4	37	40	24	24.5	27.5	TBD	4	550	4 x 4 QFN	Q2/Q3 2022
ARF1107Q4	37	40	24	23	25	TBD	4	275	4 x 4 QFN	Q2/Q3 2022
ARF1023Q4	34	38	29.5	26	28	33.5	4	550	4 x 4 QFN	NOW
ARF1013	27	31.5	28	TBD	38.9	44	-1.9/22	115	Bare Die	NOW
ARF1013Q6	27	31.5	27.5	TBD	38.5	43.5	-1.9/22	115	6 x 6 QFN	Q2/Q3 2022
ARF1014	27	31.5	27.5	TBD	41	49	-1.9/22	230	Bare Die	NOW
ARF1014Q6	27	31.5	27	TBD	39.5	48.5	-1.9/22	230	6 x 6 QFN	Q2/Q3 2022
ARF1103Q4	27	31.5	25	23.5	26	TBD	-1.5V/10V	150	4 x 4 QFN	NOW
ARF1104Q4	27	31.5	28	24.5	29	TBD	-1.5V/15V	150	4 x 4 QFN	NOW
ARF1105Q4	27	31.5	31	28	31.5	TBD	-1.5V/20V	250	4 x 4 QFN	NOW

ARF1010Q4

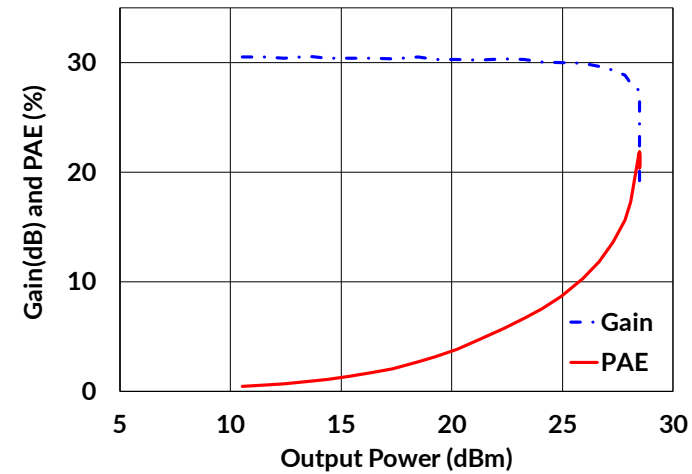
- 22 - 30 GHz Linear Amplifier
- 28 dB Gain
- 27 dBm Output P1dB
- > 13 dB Input and Output Return Loss
- 36 dBm Output IP3
- 4 mm x 4 mm QFN Package



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Gain

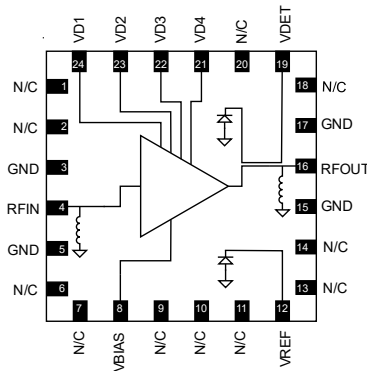
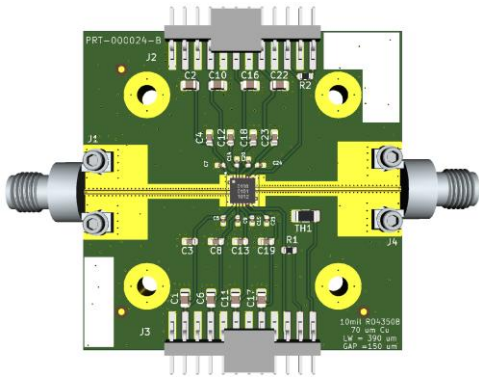


Power Gain
PAE at 28 GHz

EAR99

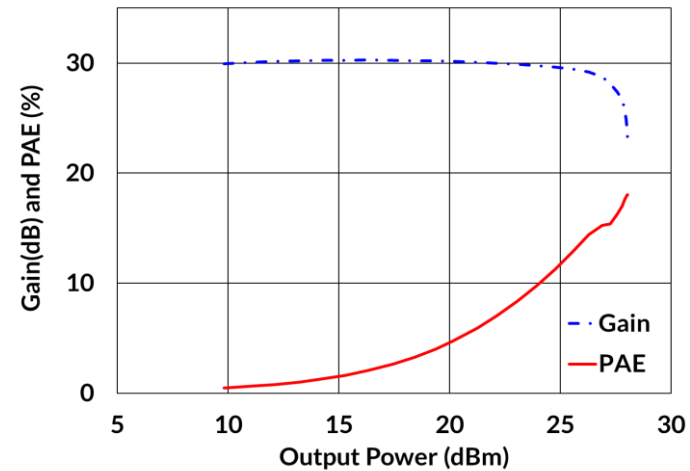
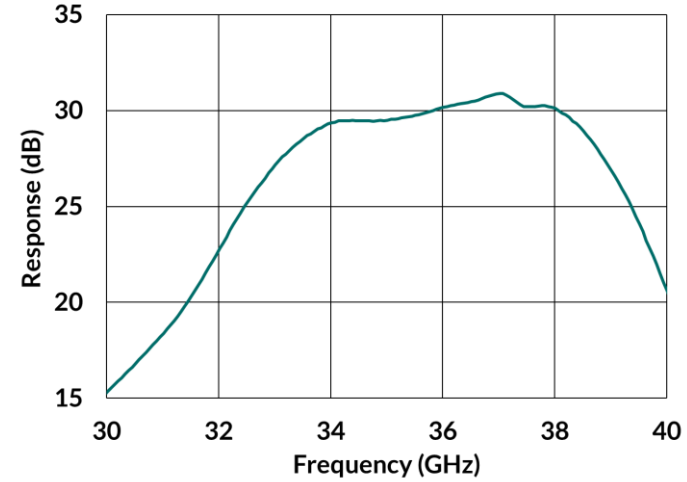
ARF1023Q4

- 34 - 38 GHz Linear Amplifier
- 29.5 dB Gain
- 26 dBm Output P1dB
- > 13 dB Input and Output Return Loss
- 4 mm x 4 mm QFN Package



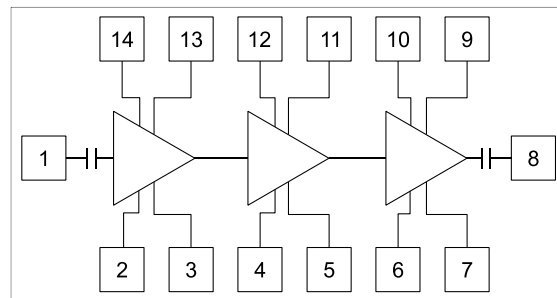
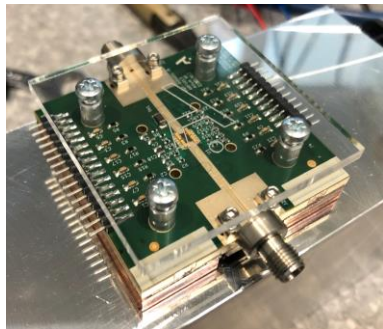
Dual-use, end-use statement required.

samples and eval boards available now

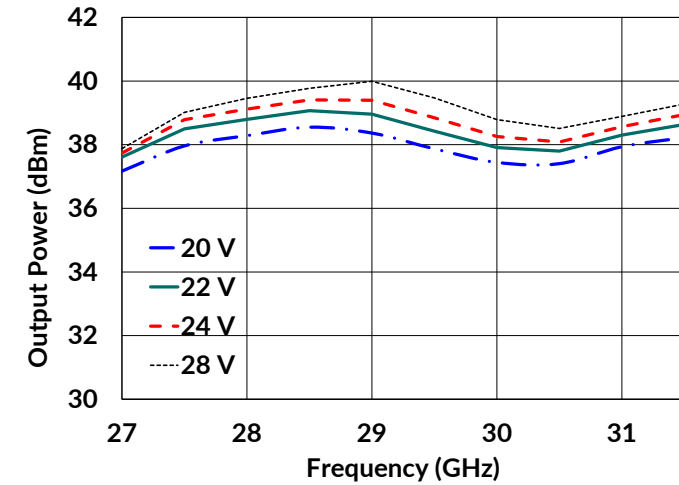
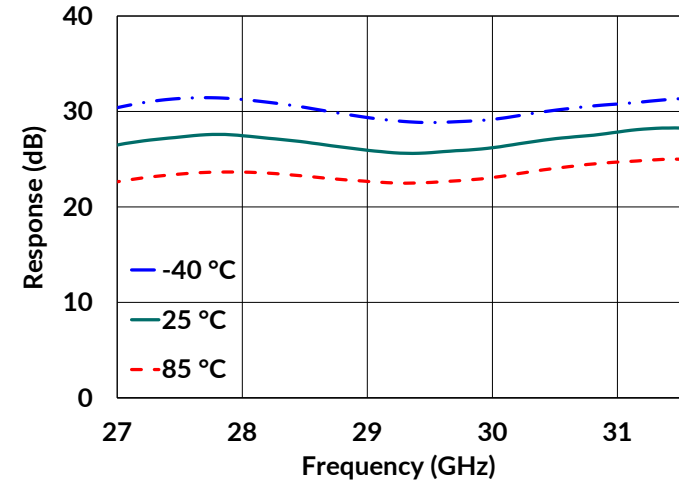


ARF1013

- 27 - 31.5 GHz GaN Power Amplifier MMC
- 28 dB Small-Signal Gain
- 18 dB Power Gain
- 6 W Output Power
- 30% PAE
- Die Size: 3.00 x 1.75 x 0.10 mm



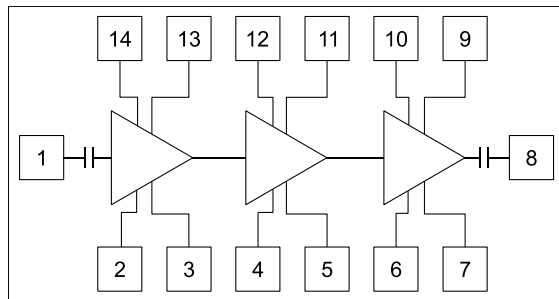
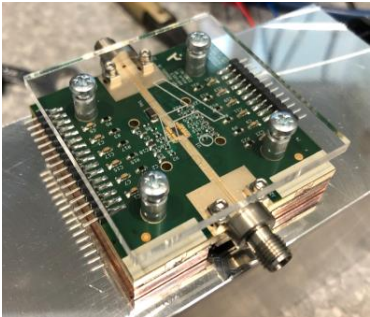
samples and eval boards available now



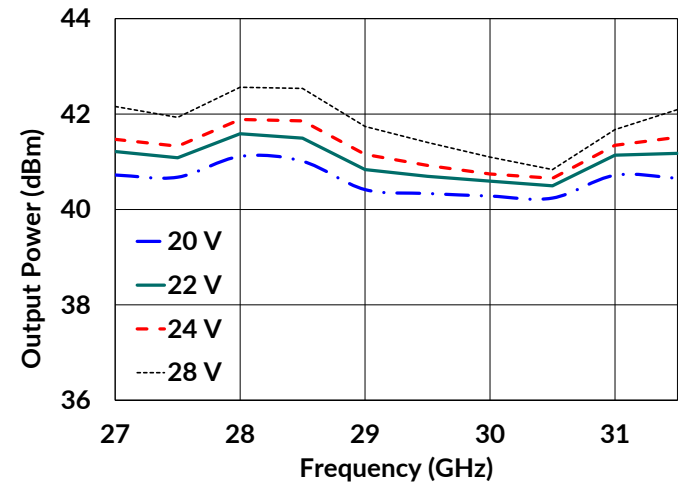
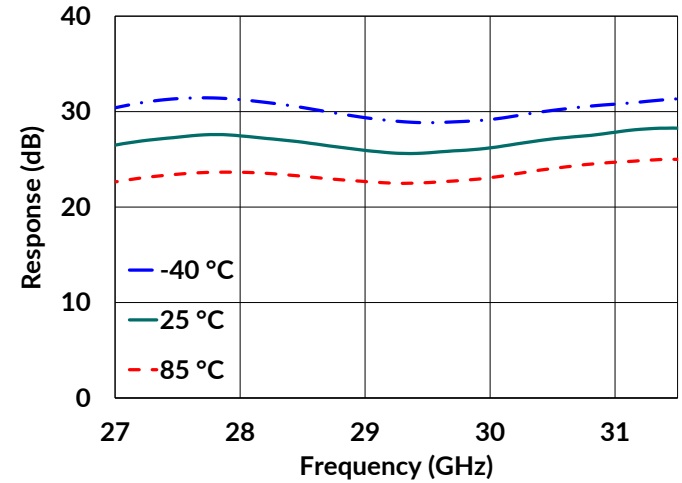
Dual-use, end-use statement required.

ARF1014

- 27 - 31.5 GHz GaN Power Amplifier MMC
- 27.5 dB Small-Signal Gain
- 18 dB Power Gain
- 12 W Output Power
- 25% PAE
- Die Size: 3.0 × 3.4 × 0.1 mm



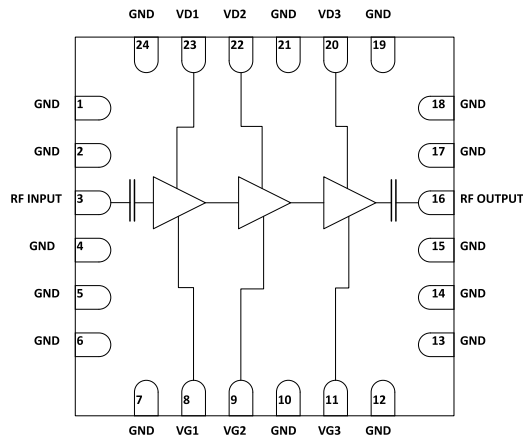
samples and eval boards available now



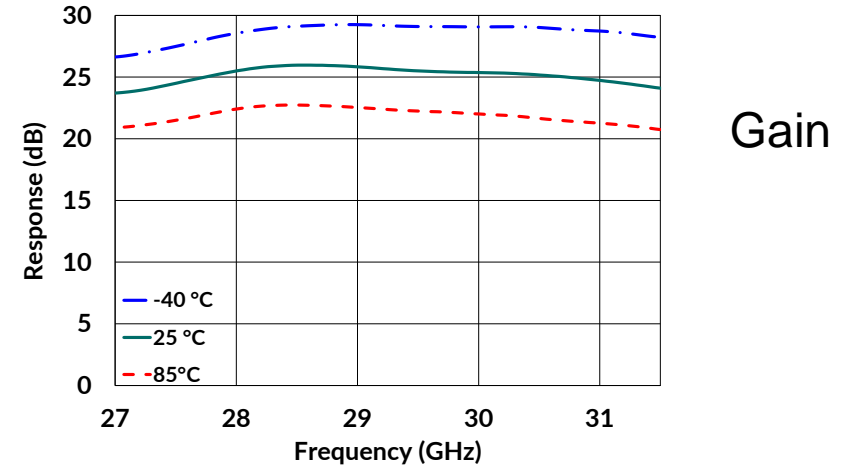
Dual-use, end-use statement required.

ARF1103Q4

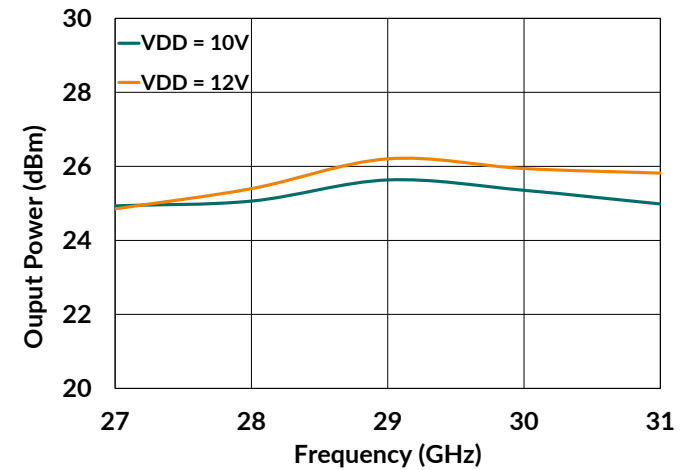
- 27 - 31.5 GHz Power Amplifier
- 26 dBm P_{SAT}
- 25 dB Small Signal Gain
- 20 % PAE at P_{SAT}
- 4 mm x 4mm QFN Package



samples and eval boards available now



Gain

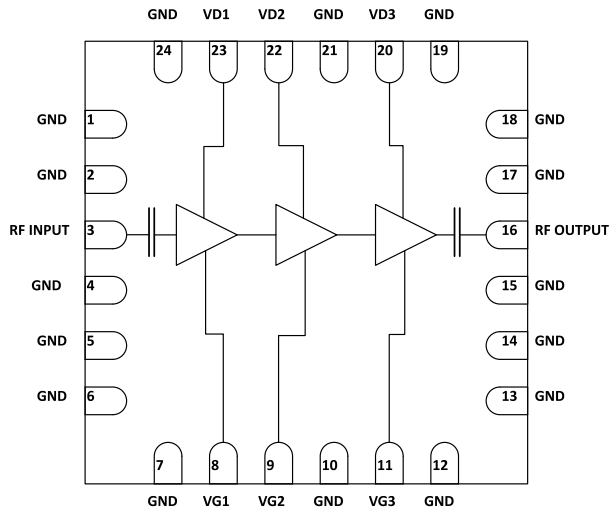


Output Power

EAR99

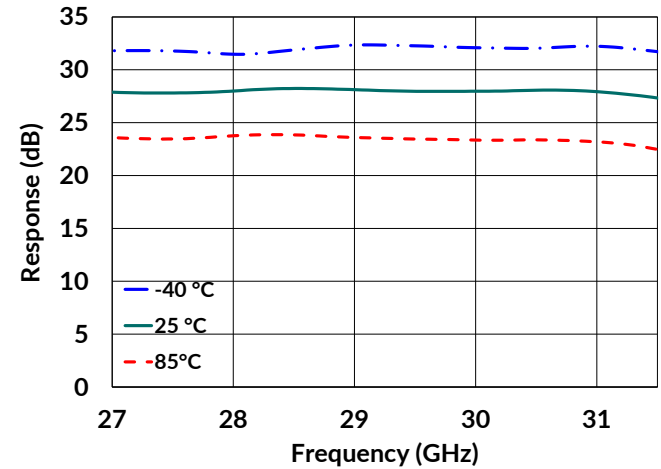
ARF1104Q4

- 27 - 31.5 GHz Power Amplifier
- 28 dBm P_{SAT}
- 28 dB Small Signal Gain
- 20 % PAE at P_{SAT}
- 4 mm x 4mm QFN Package

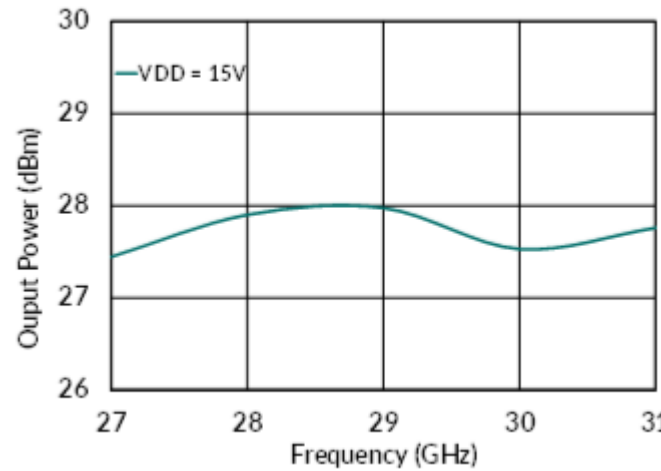


EAR99

samples and eval boards available now



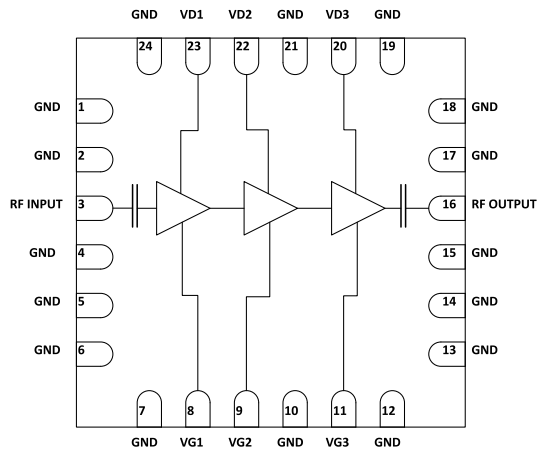
Gain



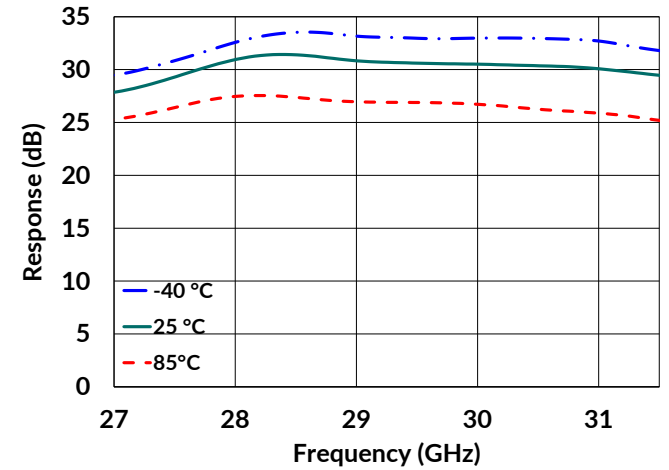
Output Power

ARF1105Q4

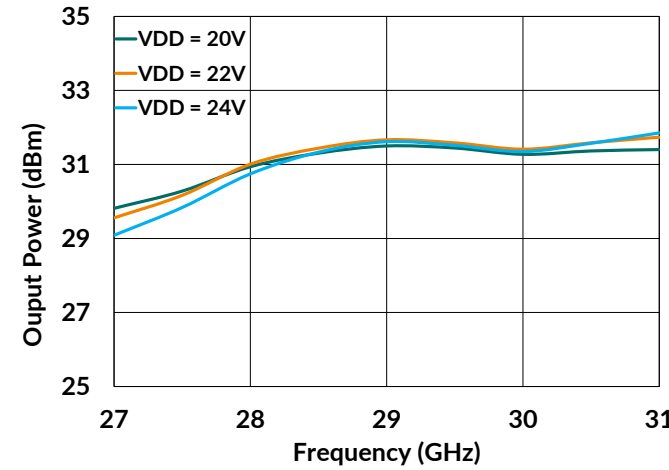
- 27 - 31.5 GHz Power Amplifier
- 31.5 dBm P_{SAT}
- 31 dB Small Signal Gain
- 24 % PAE at P_{SAT}
- 4 mm x 4mm QFN Package



samples and eval boards available now



Gain



Output Power

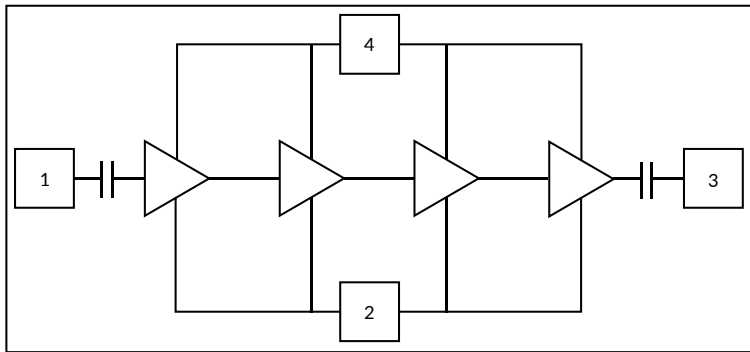
EAR99

Q, V and E-band Amplifiers

Power Amplifier	Min. Frequency (GHz)	Max. Frequency (GHz)	Gain (dB)	P1dB (dBm)	P _{SAT} (dBm)	OIP3 (dBm)	Bias Voltage (V)	Bias Current (mA)	Package	Sampling
ARF1208	37	59	26.5	16.5	19	TBD	2	55	Bare Die	NOW
ARF1207	57	71	22	21.5	22	TBD	4	250	Bare Die	NOW
ARF1206	71	86	22	14.5		TBD	3.5	55	Bare Die	NOW
ARF1006	71	76	20	28	29	36	-0.5/4	1000	Bare Die	Q3 2022
ARF1007	81	86	21	28	29	35	-0.5/4	1100	Bare Die	Q3 2022
ARF1017	76	81	24	28	29	35	-0.5/4	1100	Bare Die	Q3 2022

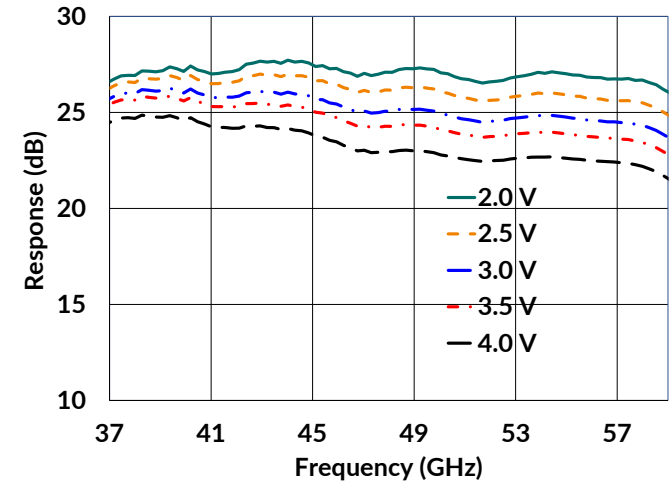
ARF1208

- 37 – 59 GHz Low Noise Amplifier
- 3 dB Noise Figure (LNA Bias)
- 26.5 dB Gain
- 19 dBm Saturated Output Power (Driver Bias)
- > 10 dB Input and Output Return Loss
- 2 V, 55 mA for LNA Bias
- 4V, 100 mA for Driver Bias

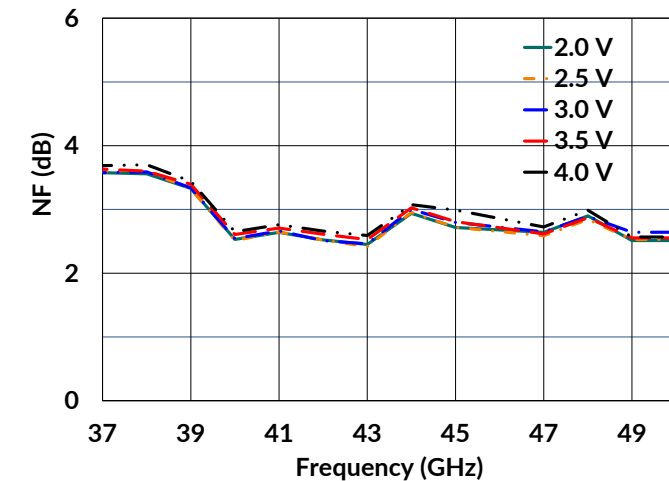


Dual-use, end-use statement required.

samples and eval boards available now



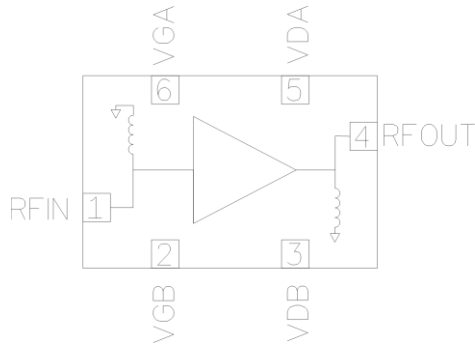
Gain



Noise Figure

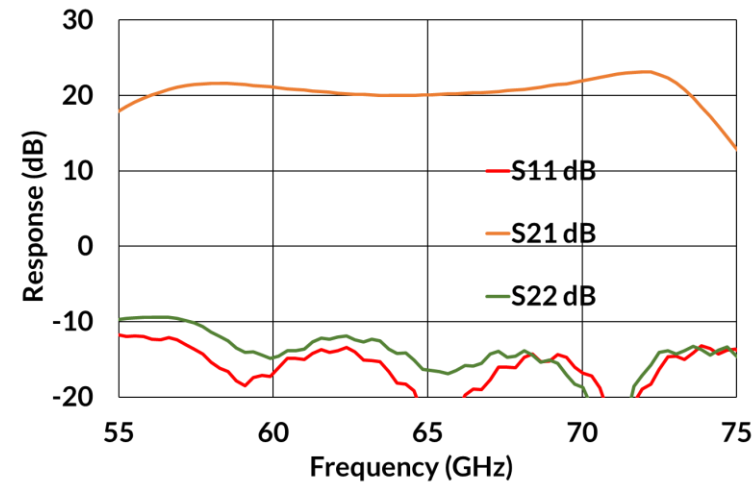
ARF1207

- 57–71 GHz
- LNA/Driver/Medium Power Amplifier
- 22 dB Gain
- 22 dBm P_{SAT} Output Power
- > 10 dB Input and Output Return Loss
- 5 dB Noise Figure
- 4 V, 250 mA Nominal Bias
- Single gate and single drain supply, from either side

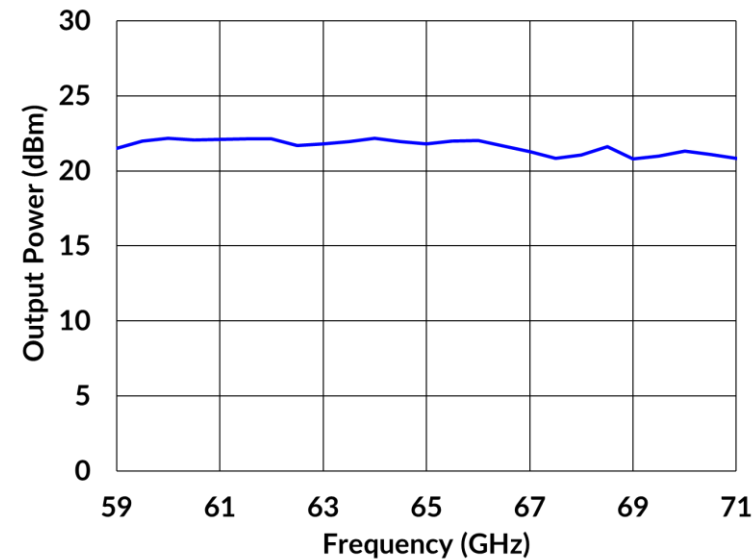


Dual-use, end-use statement required.

samples and eval boards available now



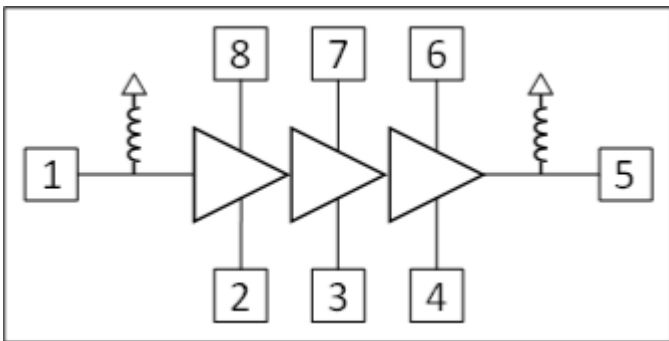
Gain, S11, S22
(includes bond wires)



Psat vs. Frequency
(includes bond wires)

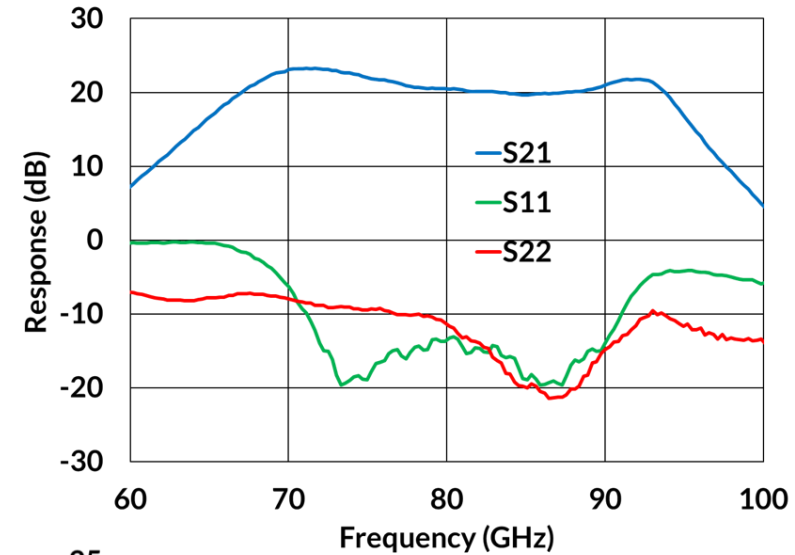
ARF1206

- 71-86 GHz Low Noise Amplifier
- 22 dB Gain
- Noise Figure 4 dB
- 14.5 dBm Typical Output P1dB
- > 8 dB Input Return Loss
- > 9 dB Output Return Loss
- Die Size 1.40 × 1.00 × 0.05 mm

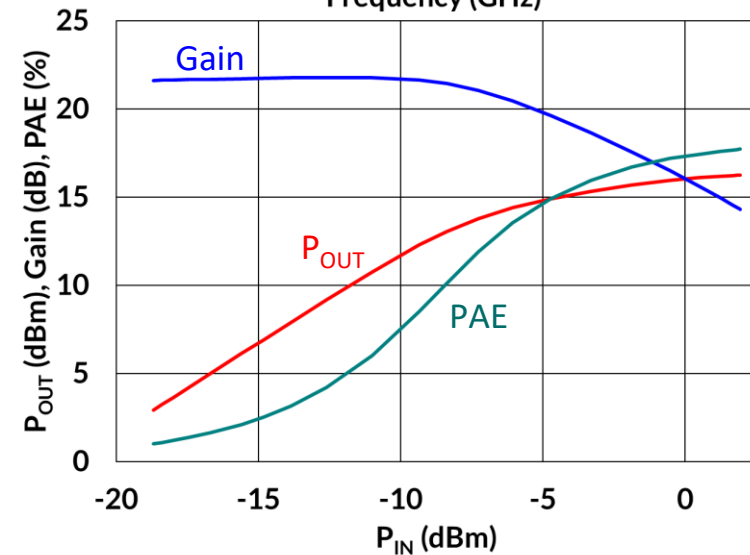


Dual-use, end-use statement required.

samples and eval boards available now



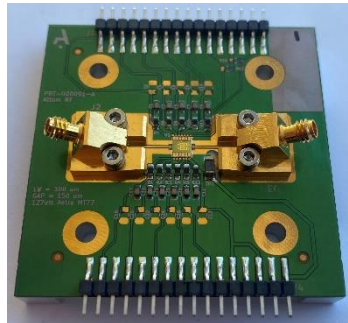
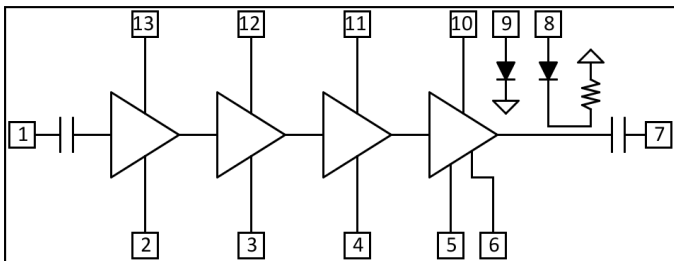
Small signal
Measured
S-parameters



Output Power
Power Gain
PAE at 77 GHz

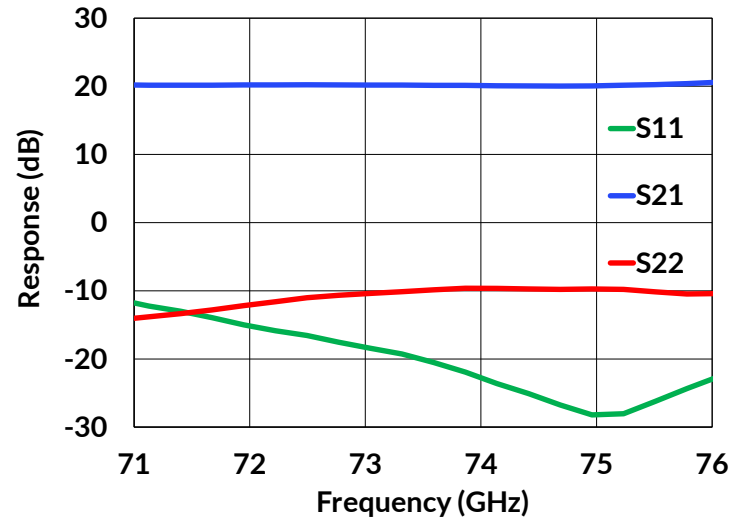
ARF1006

- 71 - 76 GHz Power Amplifier
- 20 dB Small-Signal Gain
- 29 dBm Output P_{SAT}
- > 10 dB Input and Output Return Loss
- > 15 % PAE
- Bare die $3.2 \times 2.2 \times 0.05$ mm

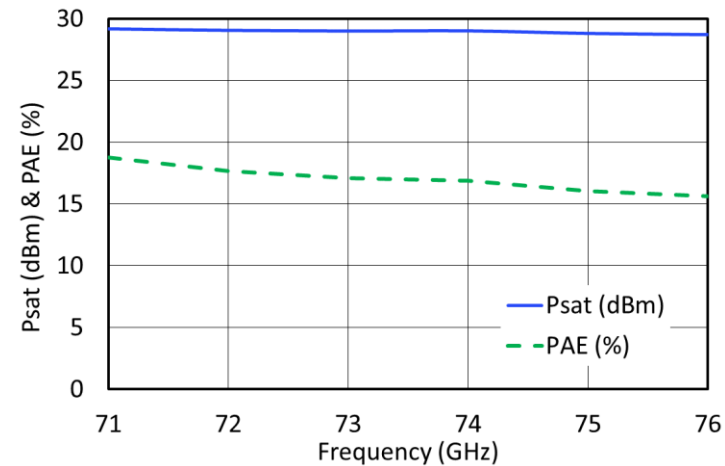


Dual-use, end-use statement required.

samples and eval boards available Q3 2022



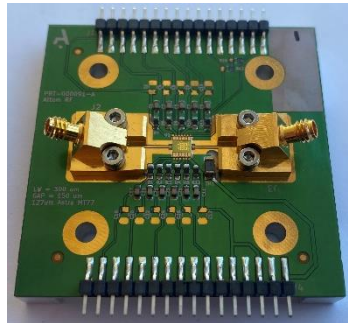
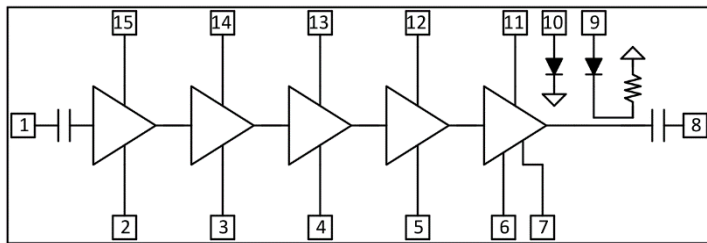
Small signal
Measured
S-parameters



Measured
 P_{SAT} & PAE

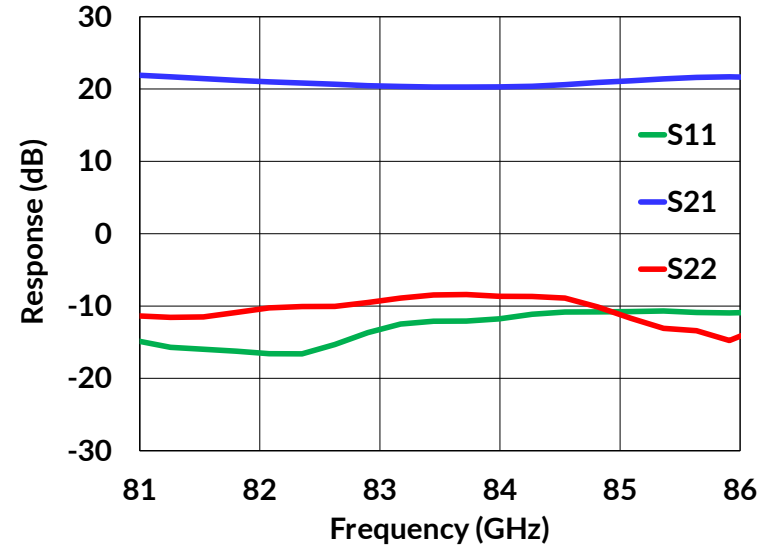
ARF1007

- 81 - 86 GHz Power Amplifier
- 21 dB Small-Signal Gain
- 29 dBm Output P_{SAT}
- > 10 dB Input and Output Return Loss
- 15 % PAE
- Bare die 3.2 × 2.2 × 0.05 mm

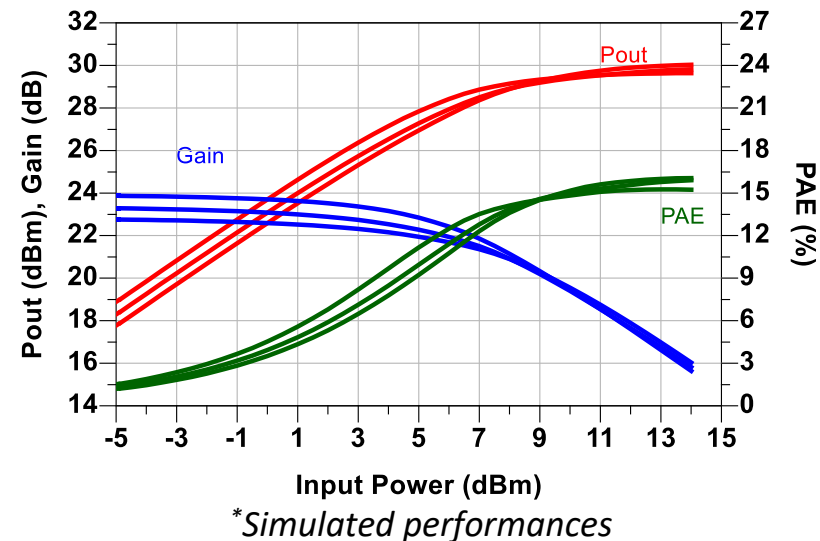


Dual-use, end-use statement required.

samples and eval boards available Q3 2022



Small signal
Measured
S-parameters

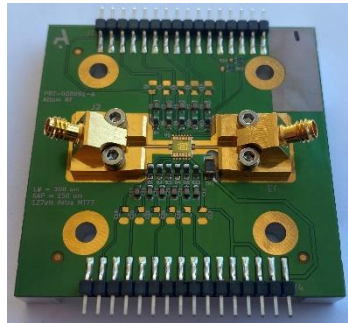
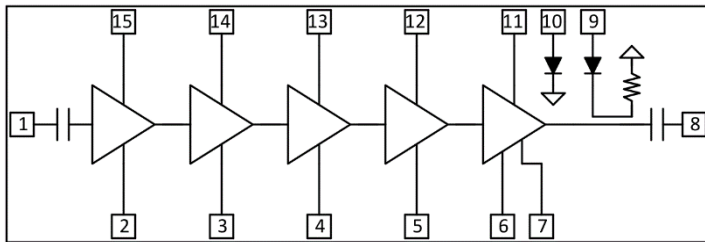


Output Power*
Power Gain*
PAE*

*Simulated performances

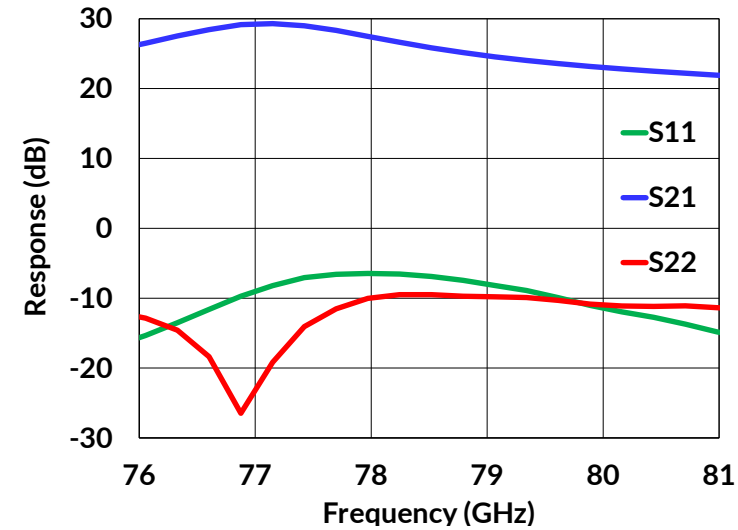
ARF1017

- 76 - 81 GHz Power Amplifier
- 24 dB Small-Signal Gain
- 29 dBm Output P_{SAT}
- 10 dB Input and Output Return Loss
- 16 % PAE
- Bare die $3.2 \times 2.2 \times 0.05$ mm

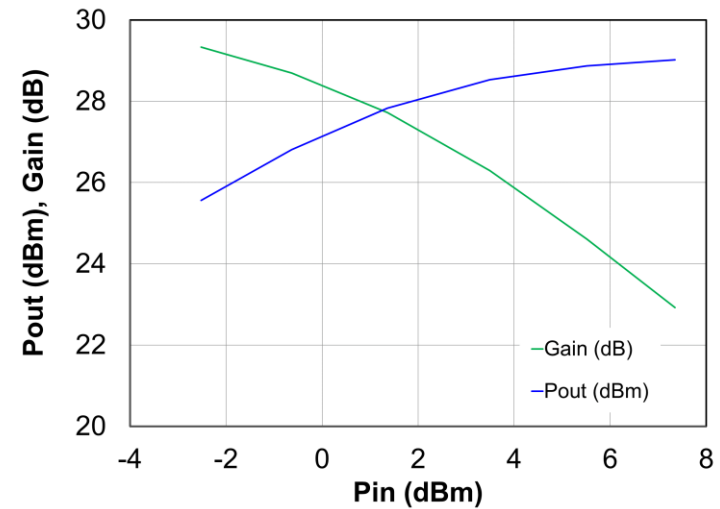


Dual-use, end-use statement required.

samples and eval boards available Q3 2022



Small signal
Measured
S-parameters



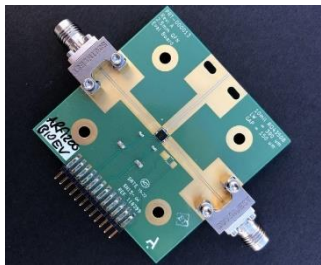
Measured
Output Power
& Power Gain
At 77 GHz

Low Noise / Driver Amplifiers

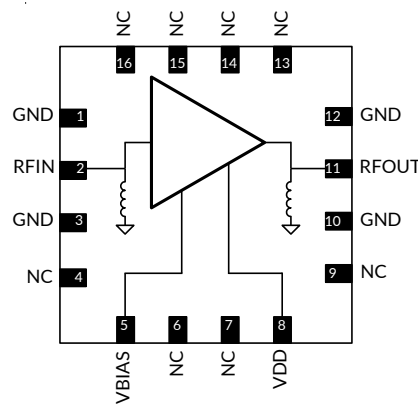
Low Noise/ Driver Amplifiers	Min. Frequency (GHz)	Max. Frequency (GHz)	Gain (dB)	NF (dB)	P1dB (dBm)	Bias Voltage (V)	Bias Current (mA)	Package	Sampling
ARF1200Q2	20	31.5	20	3.5	1	3.3	15	2.5 x 2.5 QFN	NOW
ARF1201Q2	17	31.5	21	2.6	7	3.3	40	2.5 x 2.5 QFN	NOW
ARF1202Q2	37	42	17	4.0	8.5	3.3	15	2.5 x 2.5 QFN	NOW
ARF1203Q2	37	40	20.5	4.0	13	3.3	40	2.5 x 2.5 QFN	NOW
ARF1205Q2	13	24	23	2.5	16	3.3	50	2.5 x 2.5 QFN	NOW
ARF1204Q4	7	12	21	2	20	10/-1.5	60	4 x 4 QFN	Q2/Q3 2022
ARF1210Q2	32	37	18	3.8	10	3.3	40	2.5 x 2.5 QFN	NOW
ARF1206	71	86	22	3.8	14.5	3.5	55	Bare Die	NOW
ARF1207	57	71	22	5.0	21.5	4	250	Bare Die	NOW
ARF1208	37	59	26.5	2.5	16.5	2	55	Bare Die	NOW

ARF1200Q2

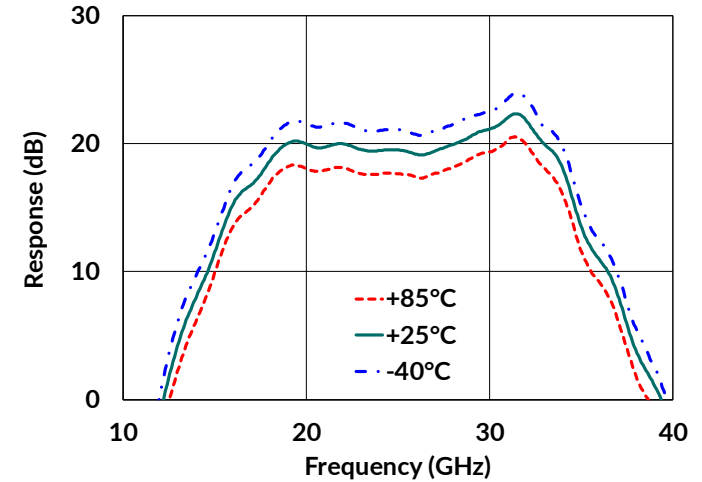
- 20 - 31.5 GHz Low Noise / Driver Amplifier
- 20 dB Gain
- 3.5 dB Noise Figure
- 6.5 dBm Output P4dB
- > 12 dB Input and Output Return Loss
- 3.3 V, 15 mA
- 2.5 mm x 2.5 mm QFN Package



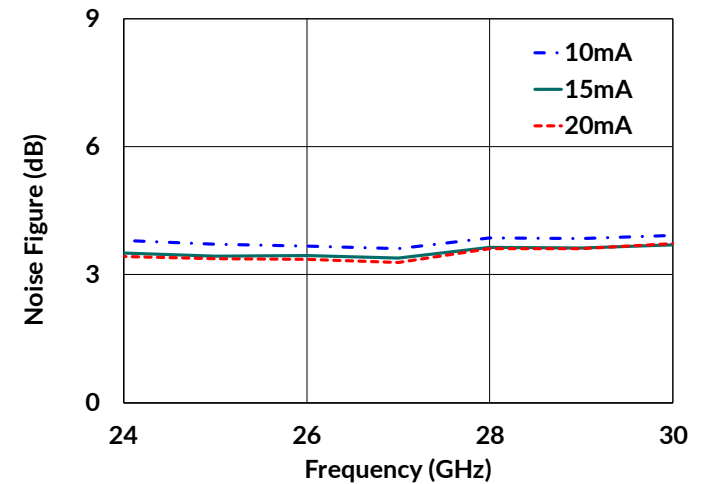
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samples and eval boards available now



Gain



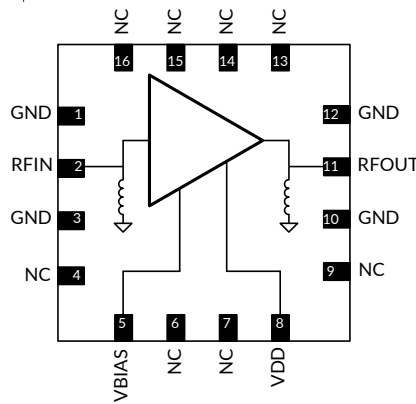
NF

ARF1201Q2

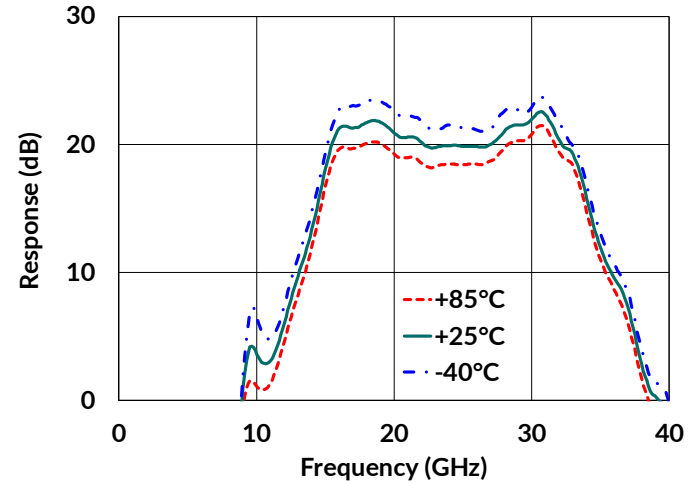
- 17 - 31.5 GHz Low Noise / Driver Amplifier
- 21 dB Gain
- 2.6 dB Noise Figure
- 16 dBm Output P4dB
- > 10 dB Input and Output Return Loss
- 3.3 V, 40 mA
- 2.5 mm × 2.5 mm QFN Package



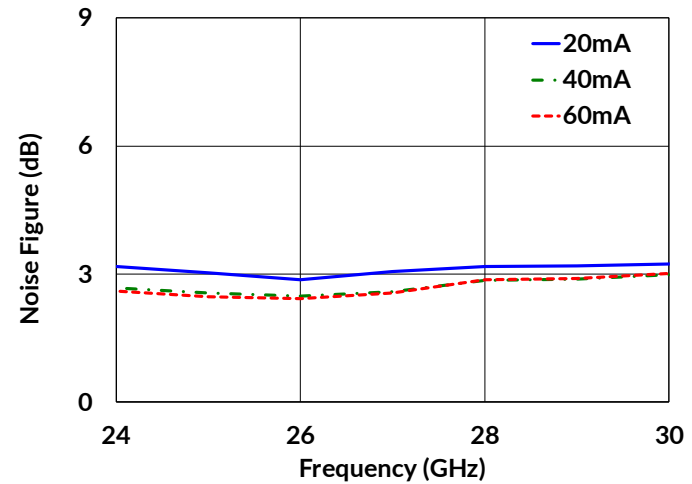
EAR99



samples and eval boards available now



Gain



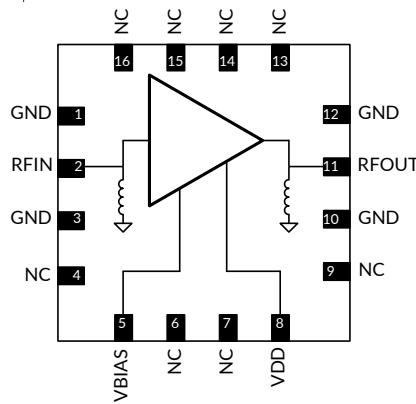
NF

ARF1202Q2

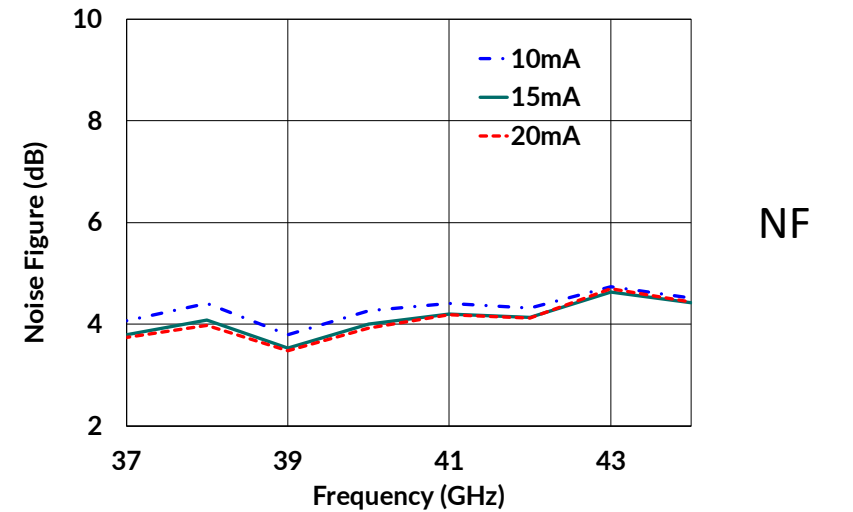
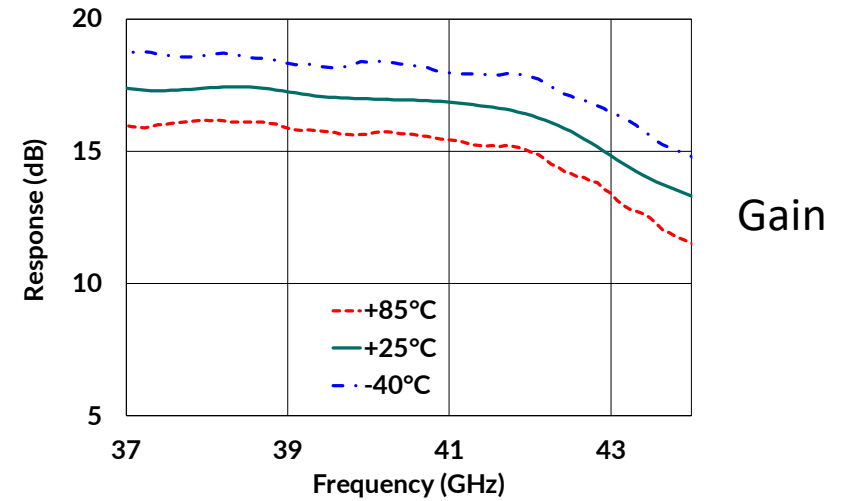
- 37 - 42 GHz Low Noise / Driver Amplifier
- 17 dB Gain
- 4 dB Noise Figure
- 8.5 dBm Output P1dB
- > 10 dB Input and Output Return Loss
- 3.3 V, 15 mA
- 2.5 mm x 2.5 mm QFN Package



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samples and eval boards available now

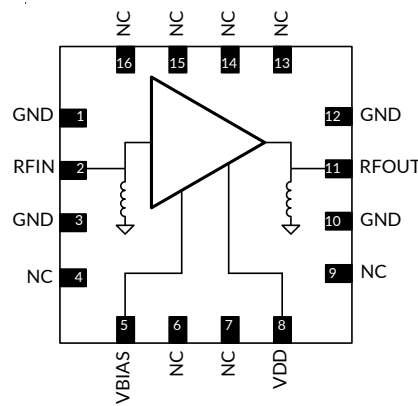


ARF1203Q2

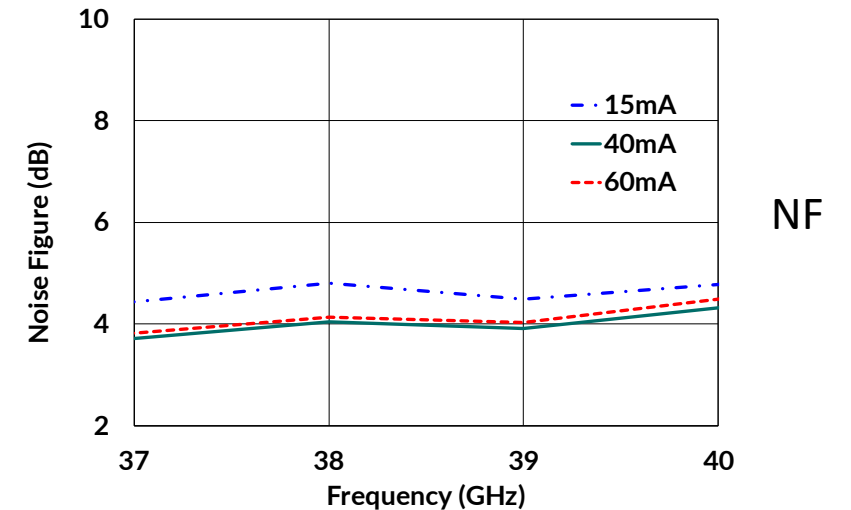
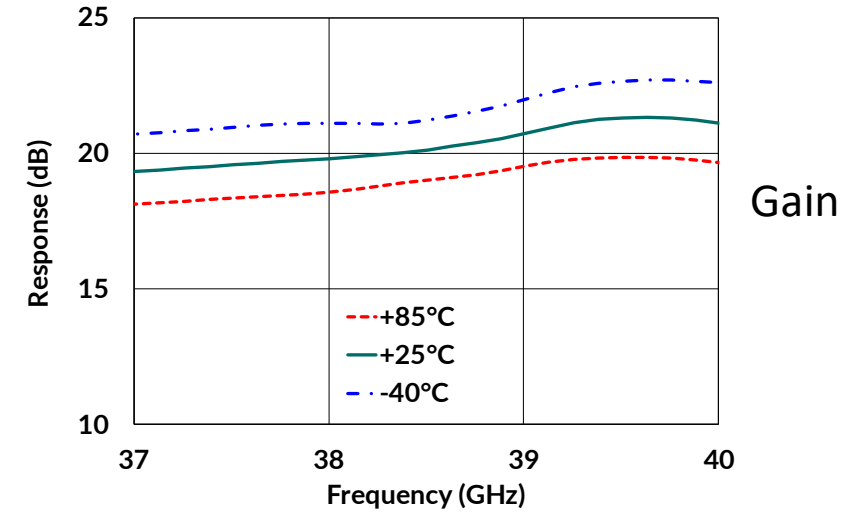
- 37 - 40 GHz Low Noise / Driver Amplifier
- 20.5 dB Gain
- 4 dB Noise Figure
- 13 dBm Output P1dB
- > 10 dB Input and Output Return Loss
- 3.3 V, 40 mA
- 2.5 mm x 2.5 mm QFN Package



EAR99

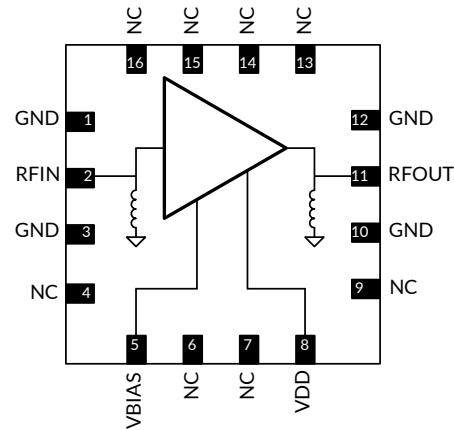


samples and eval boards available now

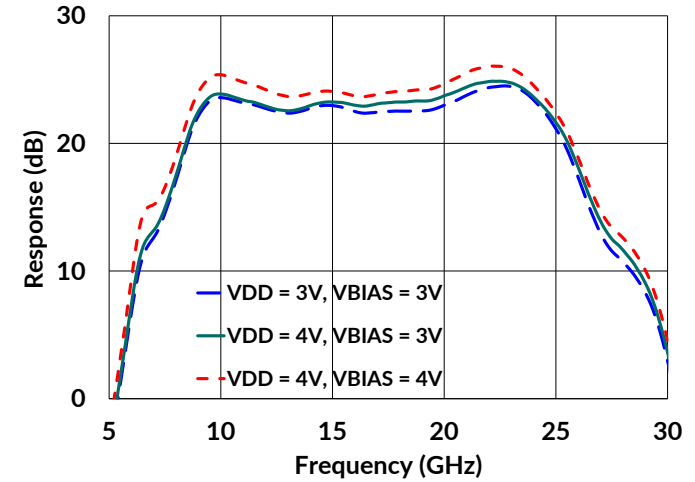


ARF1205Q2

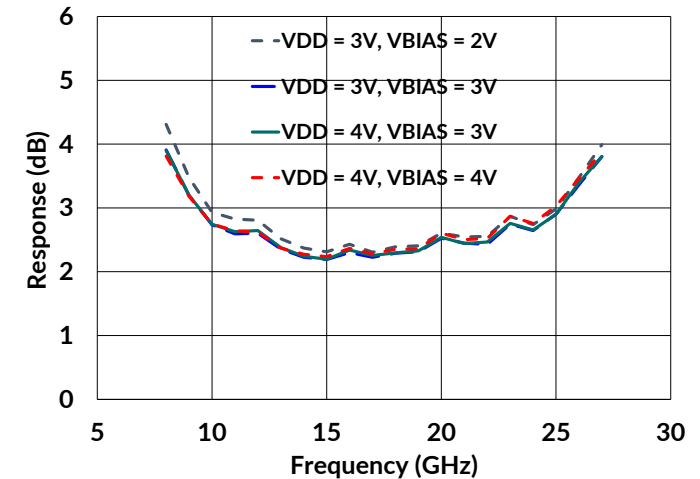
- 13 - 24 GHz Low Noise / Driver Amplifier
- 23 dB Gain
- 2.5 dB Noise Figure
- > 16 dBm Output P1dB
- > 10 dB Input and Output Return Loss
- 3.3 V, 40-60 mA, 2.5 mm x 2.5 mm QFN Package



samples and eval boards available now



Gain

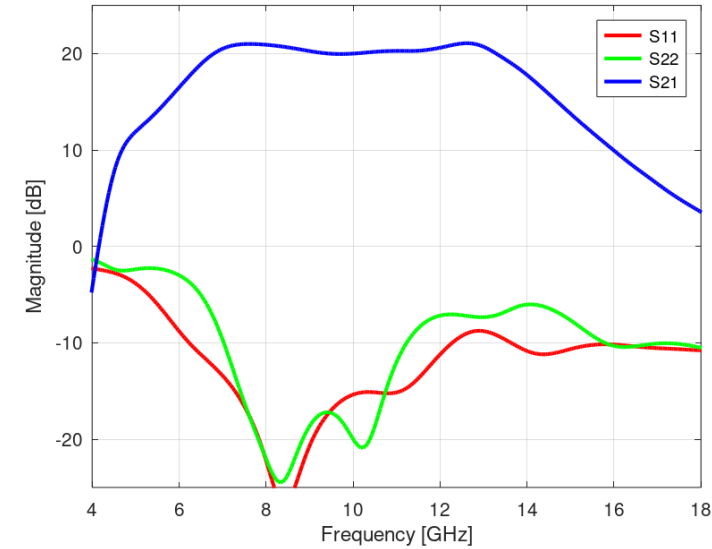
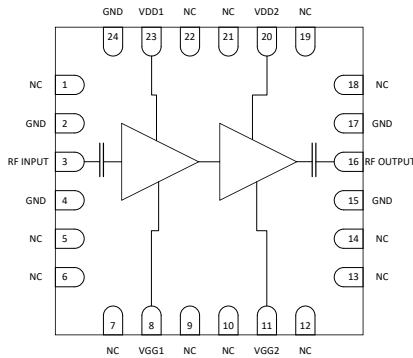


NF

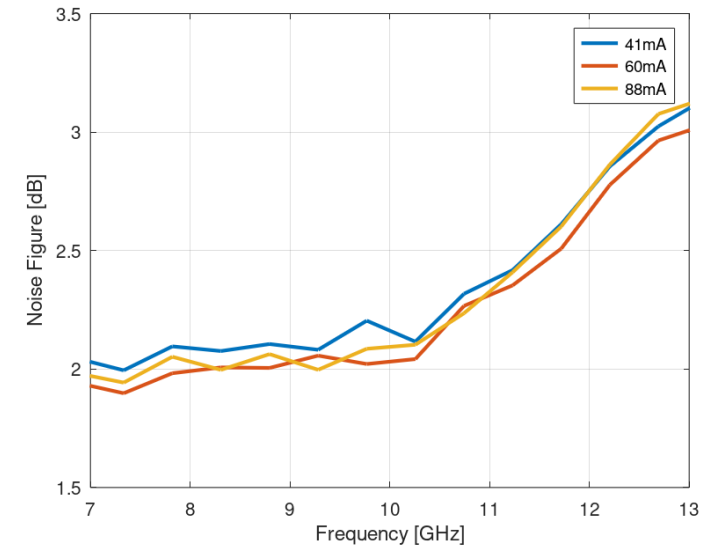
EAR99

ARF1204Q4

- 7- 12 GHz Low Noise / Driver GaN Amplifier
- 21 dB Gain, 20 dBm P1dB
- 2 dB Noise Figure
- 5 W Maximum Input Power Survivability
- > 10 dB Input and Output Return Loss
- 10 V/-1.5V, 60 mA, 4 mm x 4 mm QFN Package



S-parameters

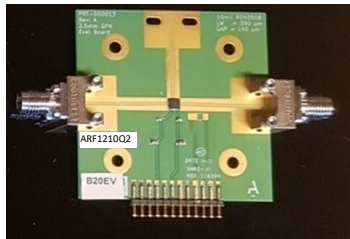


NF

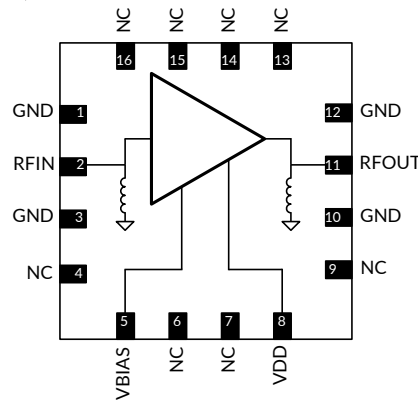
EAR99

ARF1210Q2

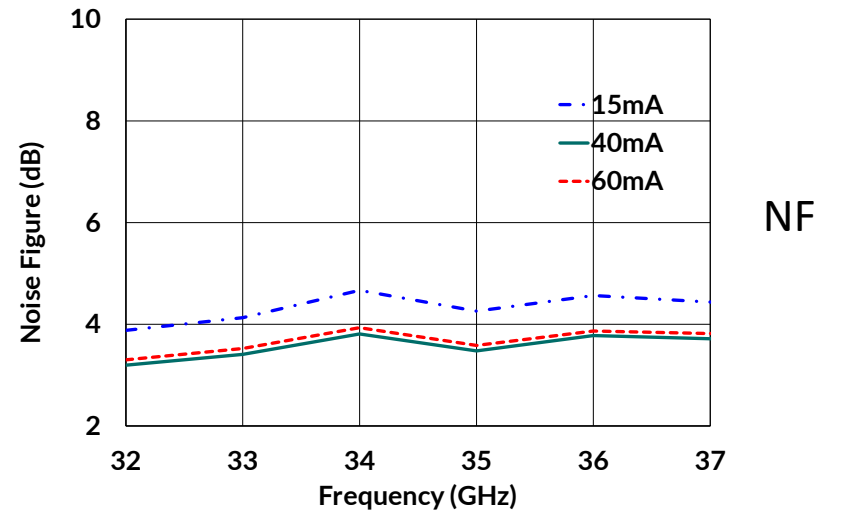
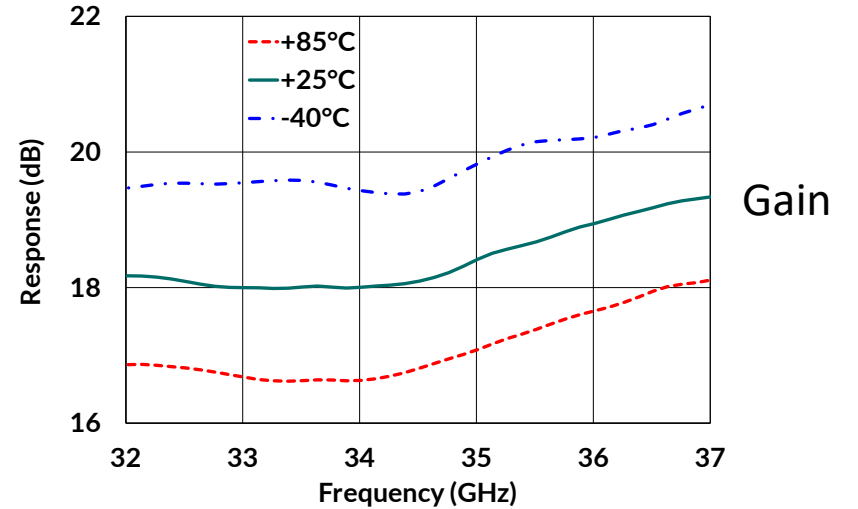
- 32 - 37 GHz Low Noise / Driver Amplifier
- 18 dB Gain
- 3.8 dB Noise Figure
- 10 dBm Output P1dB
- > 10 dB Input and Output Return Loss
- 3.3 V, 40 mA
- 2.5 mm x 2.5 mm QFN Package



Dual-use, end-use statement required.



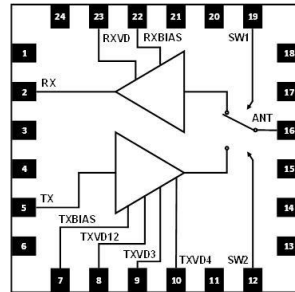
samples and eval boards available now



Integrated Front-End for 5G Millimeter-Wave

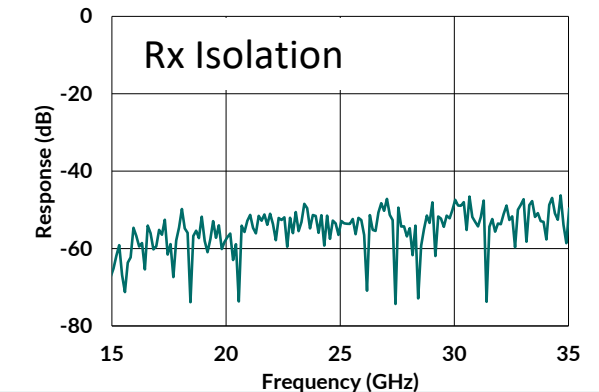
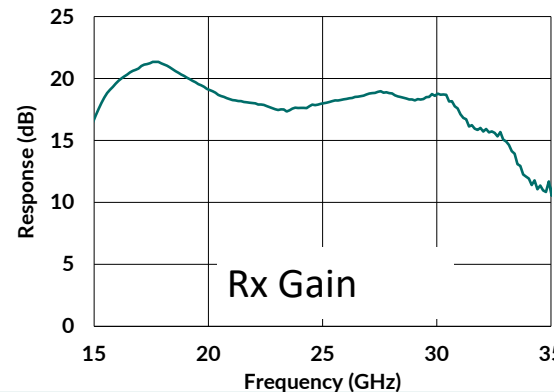
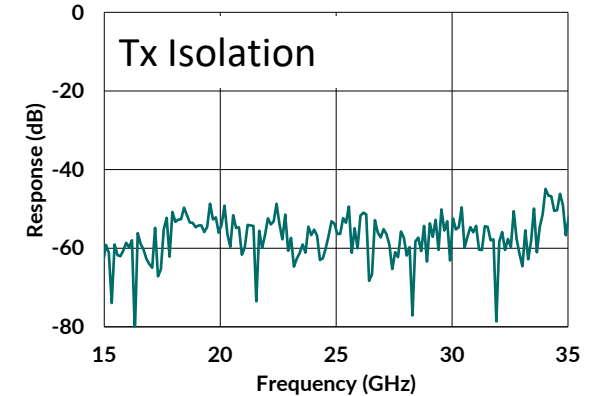
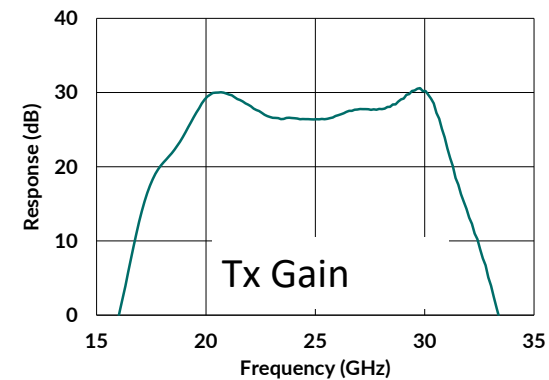
Amplifiers	Frequency	Tx Gain	Tx P _{SAT}	Tx P1dB	Rx NF	Rx Gain	Package	Sampling
ARF1500Q4	24-30 GHz	26 dB	28.5 dBm	26.5 dBm	3.5 dB	21 dB	4 × 4 QFN	TBD

- 24 - 30 GHz Integrated Front-End
- 26 dB Tx Gain
- 28.5 dBm Tx P_{SAT}
- 26.5 dBm Tx P1dB
- 3.5 dB Rx Noise Figure
- 21 dB Rx Gain
- Package Size: 4 × 4 mm QFN
- Single positive bias



• **Technology demonstrator, can be tailored/customized**

Measured performance



Switches

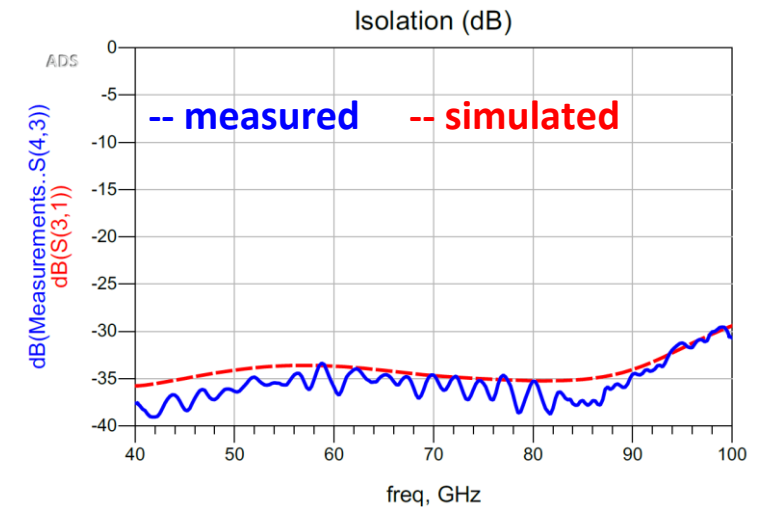
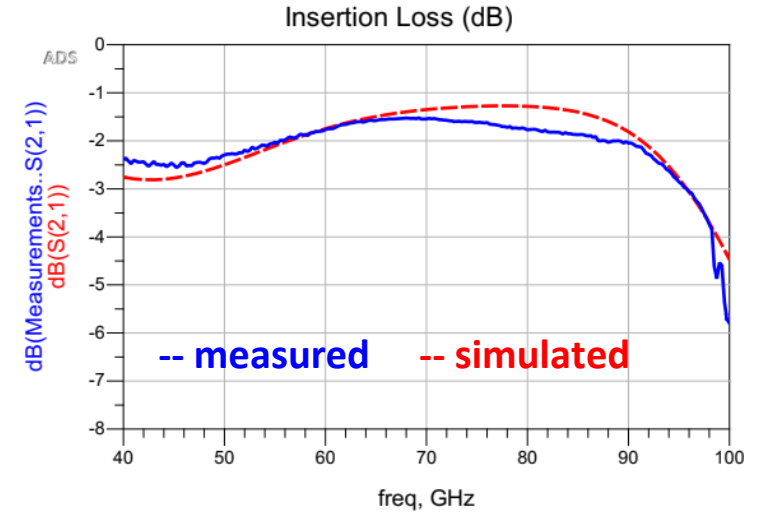
samples and eval boards available now

Name	Min. Frequency (GHz)	Max. Frequency (GHz)	Insertion Loss (dB)	Isolation (dB)	Input Return Loss (dB)	Output Return Loss (dB)	P 0.1dB (dBm)	Vctrl (V)	Package	Sampling
ARF2001	55	96	< 2	>35	15	15	>30	0/-5	Bare Die	NOW
ARF2003	DC	100	1.4 @ 50 GHz 2.5 @ 77 GHz	>30	15	15	>30	0/-5	Bare Die	NOW

ARF2001

- 55 - 96 GHz SPDT Switch
- 55-71 GHz typical 1.8 dB IL
- 71-86 GHz typical 1.6 dB IL
- 86-96 GHz typical 2.5 dB IL
- 35 dB Isolation
- Typical 15 dB Input and Output Return Loss
- 0/-5 V Control Voltages

samples and eval boards available now

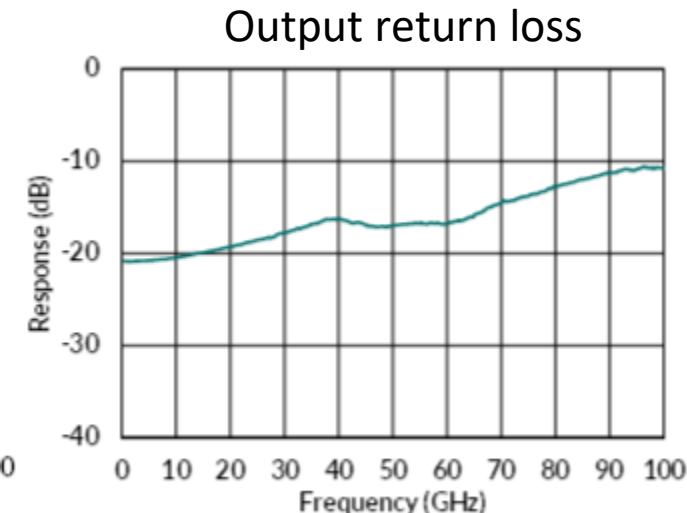
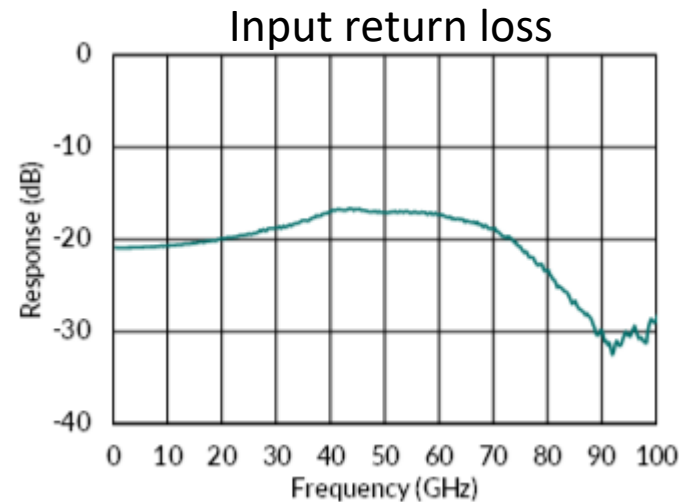
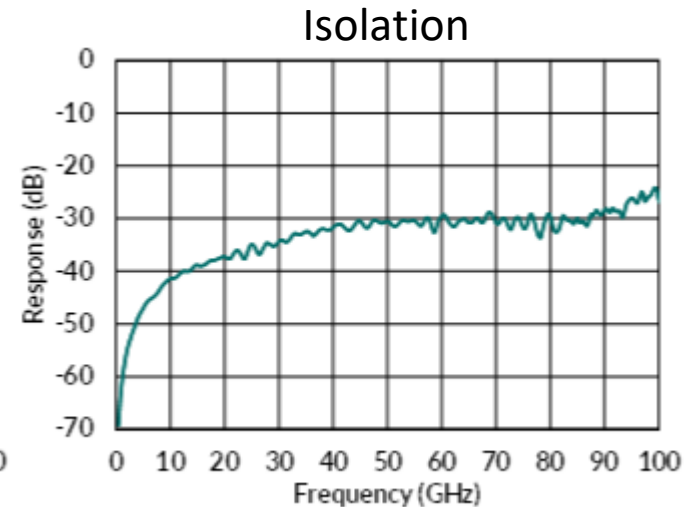
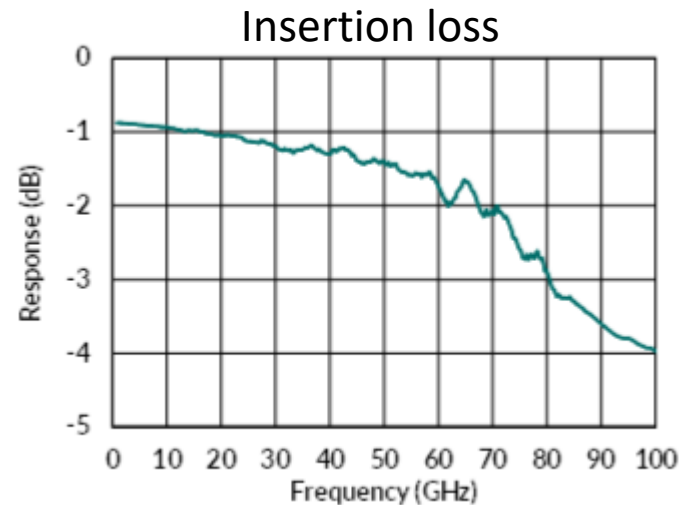


EAR99

ARF2003

samples and eval boards available now

- DC - 100 GHz SPDT Switch
- 50 GHz typical 1.4 dB IL
- 77 GHz typical 2.5 dB IL
- 100 GHz typical 4 dB IL
- 30 dB Isolation
- DC-70 GHz >15 dB Input and Output Return Loss
- 70-100 GHz >10 dB Input and Output Return Loss
- 0/-5 V Control Voltages



EAR99

THANK YOU !

ALTUM RF

Distribution
Partner



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