About us

Chengdu RF-Core Semiconductor Co., Ltd was founded in August 2017, it is a high-tech company specializing in design, development, production and sales of RF/ microwave integrated circuit chips, components and system solutions. The company is located in Chengdu No. 9, Baichuan Road, West High-tech Zone, We has a professional team with excellent technical capabilities. RF-Core has combined experts, professors, doctoral supervisors, senior engineers and scientific research backbones from many well-known universities, such as: UESTC, NPU etc. This providing a strong technical guarantee for our product design, research and development.

Microwave high frequency integrated circuit chip is an important branch of semiconductor industry, It is the core supporting product in many fields such as communication, instruments. Relying on the strong technical reserves of the company's R&D team, we are committed to meeting the growing demand for high-performance, high-integration and low-cost high-frequency integrated chips in the global markets, and provide domestic and overseas customers with independently developed RF/microwave integrated circuit chips and components. We will continue to optimize the design technology and production process, enrich the product categories, accumulate customer resources, RF-Core is a china-based company with a global perspective and we strive to become an international first-class enterprise in the field of RF/microwave devices and systems in the shortest time.

"User first,technical innovation, rigorous and efficient, and continuous improvement" - this is our quality policy.

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Multifunctional microwave chip

Multifunctional chip

Product Model	Functional Description	Working frequency (GHz)	Attenuation range/accuracy (dB/dB)	Phase shift range/accuracy (-/--)	P1dB (dBm)	Gain (dB)	Noise Figure (dB)	Chip Area (mm*mm)	Package
PCC11-01026C1	Parallel-port 6-bit-phase-shifter 6-bit-attenuator amplifier-&-T/R-switch	0.9---1.3	32.1-/-0.6	360-/-Rx:1.6 Tx:1.0	Rx:-+14.0-- Tx:-+13.5	Rx:-23.5 Tx:-21.0	—	5.15-x-3.75	Die
PCC15-01035C1	Amplifier 5-bit-attenuator T/R-Switch	1---3	31.5-/-0.2	—	+ 13	16	3	2.00-x-4.50	Die
PCC13-02036C1	Serial-port 6-bit-phase-shifter 6-bit-attenuator amplifier-&-T/R-switch	1.9---2.5	31.5-/-0.2	- 354-/-1.4	+ 19	17	—	2.80-x-3.20	Die
PCC27-02046C1	Parallel-port 6-bit-phase-shifter 7-bit-attenuator	2.5---3.5	31.75-/-0.25	354.375/5.625	—	—	—	2.75-x-2.35	Die
PCC27-02046C2	Serial-port 6-bit-phase-shifter 7-bit-attenuator	2.5---3.5	31.75-/-0.1	- 354-/-1	—	—	—	2.85-x-2.70	Die
PCC53-0513SC1	Parallel-port---------- 6-bit-Phase-shifter---- 6-bit-attenuator	5---13	31.5-/-0.5	354.375/5.625	16	8~11	—	3.50-x-4.00	Die
PCC33-0713SC1	4-channel---------- 6-bit-phase-shifter------ 6-bit-attenuator	7---13	31.5/0.5	360/5.6	Rx:--1 Tx: -15	Rx: -5 Tx: -5	15	5.06-x-6.36	Die
PCC51-0713SC1	Parallel-port---------- 6-bit-Phase-shifter---- 6-bit-attenuator	7---13	31.5/0.5	354.375/5.625	11	12	—	4.50-x-3.50	Die
PCC39-08116C1	Serial-port---------- 6-bit-Phase-shifter---- 6-bit-attenuator	8.5---11	31.5/0.5	354.375/5.625	14	RX:-13.5 Tx: -13	5.5	5.10-x-5.30	Die
PCC03-0812SC1	3-port,SIPO 6-bit-phase-shifter 6-bit-attenuator T/R-switch	8---12	31.5-/-0.5	354.375/5.625	13	6	—	3.80-x-4.70	Die
PCC03-08126C2	3-port,SIPO 6-bit-phase-shifter 6-bit-attenuator T/R-switch	8---12	31.5/0.5	354.375/5.625	11	7.5~10	—	3.80-x-4.70	Die
PCC04-0812SC1	3-port,SIPO 6-bit-phase-shifter 6-bit-attenuator T/R-switch	8---12	31.5-/-0.4	360-/-3	+ 13	4.5	—	3.80-x-4.50	Die
PCC04-0812SC2	3-port,SIPO 6-bit-phase-shifter 6-bit-attenuator T/R-switch	8---12	31.5/0.5	354.375/5.625	11	6.5~9	—	3.80-x-4.50	Die
PCC24-08126C1	2-port,SIPO 6-bit-phase-shifter amplifier-&-T/R-switch	10---12	—	354-/-1.4	18	13	—	4.50-x-2.20	Die
PCC31-1418SC1	4-channel---------- 6-bit-phase-shifter------- 6- bit-attenuator	14-18	31.5/0.5	354.375/5.625	Rx:-1 Tx: -14	Rx: -4 -Tx:-14	12	5.00-x-6.20	Die
PCC60-1518C1	4-channel---------- 6- bit-phase-shifter------- 6- bit-attenuator	15-18	31.5/0.5	360/5.625	Rx:--26	Rx: -16 Tx: -17	2.1	5.34-x-6.20	Die
PCC34-3238SC1	4-channel---------- 6-bit-phase-shifter------ 6-bit- attenuator	32---38	31.5/0.5	360/5.6	Rx:--31 Tx:-20	Rx: -23 Tx: -25	5.5	4.875-x-4.471	Die

T/R Chip

Product Model	Working frequency-(GHz)	Receive gain (dB)	P1dB (dBm)	Psat (dBm)	Noise Figure (dB)	Power consumption	powered by	Chip Area (mm*mm)	Package
PTR13-0713C1	7---13	4.5---5.1	Tx:-18.7-19.4 Rx:-14.1-15.2	—	—	—	±5V	2.00×2.00	Die
PTR03-1217C1	12-17	17	—	23.5	2.9	Tx:1650mW Rx:140mW	±5V	2.50×1.50	Die
PTR11-1416C1	14-16	26	7	29	3	—	±5V	2.70×2.10	Die
PTR11-1416C2	14-16	25.5	7	28.2~29.5	3.5	—	±5V	2.70×3.00	Die
PTR02-1517C1	15-17	24	17.5	18	2.9	Tx:350mW Rx:150mW	±5V	2.50×1.50	Die
PTR06-1517C1	15-17	22	17	18	3.2	Tx:330mW Rx:150mW	+12V@1.3A-	2.50×1.50	Die
PTR01-1923C1	19.5---23	25	19	24	2.6	Tx:650mW Rx:80mW	+5V	2.40×1.80	Die

Low Noise Amplifier

Product Model	Working frequency-(GHz)	Gain - (dB)	Noise Figure - (dB)	P1dB (dBm)	powered by	Chip Area (mm*mm)	Package
PLN186-0020B2	DC---20	20	2	18	+8V@80mA	2.80×1.50	Die
PLN11-0001C1	0.02---1.2	18	1.5	21	+5V@70mA	0.85×0.75	Die
PLN10-0001C1	0.03---0.6	32.3	0.6	22.4/21.2	+5V@105mA +4V@75mA	0.85×1.15	Die
PLN97-0004C1	0.1---3.5	31	0.65	20	+5V@90mA	1.25×1.00	Die
PLN109-0004C1	0.1---3.5	31.5	0.55	20	+5V@72mA	1.25×1.00	Die
PLN175-0027A1	0.1---27	13.5	2	19	- +7.5V@55.3mA	1.00×0.80	Die
PLN173-0003B2	0.3---2.5	23.5	0.7	19	+5V@40.5mA	1.80×1.25	Die
PLN178-0003A2	0.3---2.5	19	0.4	18.5	+5V@54.7mA	1.80×1.25	Die
PLN182-0001A1	0.38---1	35.2	0.5	17	+5V@52.6mA-	1.70×1.70	Die
PLN168-0003A1	0.5---2.2	20.2	1	19.5	+5V@53mA	1.80×1.25	Die
PLN93-0020C1	0.5---20	20	2.2	18	+8V@80mA	2.80×1.60	Die
PLN181-0002A1	0.8---1.6	34.5	0.4	16.7	+5V@45.1mA	1.70×1.70	Die
PLN34-0102C1	0.8---2.0	22	1	15	+5V@40mA	1.90×1.65	Die
PLN35-0102C2	0.8---2.5	29.5	0.5	15	+5V@40mA	1.33×1.53	Die
PLN28-0104C1	0.8---3.5	27	1.6	11.8	+5V@36mA	2.70×1.30	Die
PLN111-0004C1	0.8---4	33	0.65	18	+5V@62mA	1.40×1.10	Die
PLN142-0018C1	0.8---18	17	1.6	19@55mA 18@35mA	+5V@55mA/35mA	1.51×1.02	Die

Low Noise Amplifier

Product Model	Working frequency- (GHz)	Gain - (dB)	Noise Figure - (dB)	P1dB (dBm)	powered by	Chip Area (mm*mm)	Package
PLN37-0109C1	1-9	21.5	0.9	17	+5V@50mA	1.25×1.50	Die
PLN67-0109C1	1-9	28	1.4	12.2	+5V@60mA	2.20×1.20	Die
PLN70-0109C2	1-9	28	1.4	10.2	+5V@67mA	1.90×1.20	Die
PLN96-0109C1	1-9	27	0.8	14	+5V@65mA	1.85×1.25	Die
PLN180-0109B1	1-9	24.5	0.7	14.5	+5V@42mA	1.85×1.25	Die
PLN39-0112C1	1-12	18.5	0.8	19	+5V@45mA	1.58×1.07	Die
PLN92-0112C1	1-12	18	1.4	20	+5V@50mA	1.60×1.25	Die
PLN118-0112C1	1-12	17.5	1.3	20	+5V@43.1mA	1.60×1.225	Die
PLN119-0112C1	1-12	18	1.2	20.5	+5V@54.9mA	1.60×1.25	Die
PLN134-0118C1	1-18	15	1.6	14	+3.5V@19mA	1.60×1.10	Die
PLN83-0120C1	1-20	15	2	18	+5V@39mA	1.60×1.20	Die
PLN91-0120C1	1-20	15.5	1.6	16	+5V@38mA	1.60×1.20	Die
PLN27-0206C1	2-6	14	1.5	17.5	+5V/4V@65mA	1.75×1.40	Die
PLN30-0206C1	2-6	24.8	1.2	12	+5V@37mA	1.90×0.95	Die
PLN90-0206C1	2-6	27	0.65	12	+5V@30mA	1.85×1.25	Die
PLN110-0206C1	2-6	26	1.6	20.5	+5V@67mA	1.55×1.00	Die
PLN112-0206C1	2-6	27.5	0.55	13.5	+5V@32.7mA	1.60×1.175	Die
PLN45-0208C1	2-8	28	0.8	16	+5V@42mA	1.60×1.23	Die
PLN69-0209C1	2-9	29	1	15.4	+5V@52mA	2.25×1.10	Die
PLN68-0218C1	2-18	15	1.34~2.49	8~11.8	+5V@32.5mA	1.40×1.05	Die
PLN132-0218C1	2-18	28.3	0.8	14.1	+5V@40.8mA	1.60×1.175	Die
PLN132-0218B1	2-18	28.5	1	14	+5V@48mA	1.60×1.2	Die
PLN47-0220C1	2-20	16	2	16	+5V@75mA	2.75×1.37	Die
PLN120-0220A1	2-20	16.5	1.4	16	+5V@39mA	1.60×1.10	Die
PLN120-0220B2	2-20	16	1.5	17	+5V@37.3mA	1.60×1.15	Die
PLN162-0224A1	2-24	18.5	2	17	+5V@65mA	3.00×1.30	Die
PLN26-0204C1	2.6-3.8	24	1.2	14.5	+5V@41mA	2.50×1.40	Die
PLN25-0204C1	2.7-3.5	28.6	0.8	11.8	+5V@60mA/73mA	2.00×1.90	Die
PLN133-0204C1	2.7-3.5	33.8	0.48	12.5	+5V@29.3mA	1.55×1.20	Die

Low Noise Amplifier

Product Model	Working frequency- (GHz)	Gain - (dB)	Noise Figure - (dB)	P1dB (dBm)	powered by	Chip Area (mm*mm)	Package
PLN145-0204C1	2.7-3.5	29	0.65	15	+5V@65mA	2.00×3.85	Die
PLN176-0407A1	4-7	28	1	20	+5V@99mA	1.50×1.00	Die
PLN49-0408C1	4-8	23	0.7	11.5	+5V@27mA	2.01×0.97	Die
PLN66-0408C1	4-8	26.6	1.15	15.6	+5V@52mA	2.25×1.10	Die
PLN113-0408C1	4-8	28	0.65	13.5	+5V@31.4mA	1.55×1.20	Die
PLN146-0408C1	4-8	26.5	1	16.5	+5V@52mA	2.20×1.20	Die
PLN184-0408A1	4-8	26	1	19	+5V@85mA	1.68×0.88	Die
PLN79-0506C1	5-6	26	0.7	15.5	+5V@39mA	2.30×1.10	Die
PLN157-0513C1	5-13	26	1.8	10	+5V@40mA	1.80×2.50	Die
PLN115-0514C1	5-14	26	0.8	9	+5V@20mA	1.50×1.10	Die
PLN154-0514C1	5-14	26	0.8	9	+ 3.3V@20mA	1.50×1.10	Die
PLN104-0613C1	6-13	27	0.7	12.5	+5V@32mA	1.55×1.10	Die
PLN166-0613A1	6-13	25.5	0.8	10.5	+5V@26.6mA	1.45×1.00	Die
PLN18-0618C1	6-18	9	3.3	13	+5V@30mA	1.40×1.20	Die
PLN52-0618C1	6-18	27	1.5	12	+5V@37mA	1.63×1.22	Die
PLN94-0618C1	6-18	22	1.5	12	+5V@30mA	1.60×1.00	Die
PLN95-0618C1	6-18	21.5	1.4	13	+5V@33mA	1.60×1.00	Die
PLN116-0618C1	6-18	22	1.1	17	+5V@78.5mA	1.60×1.20	Die
PLN153-0618C1	6-18	25	1	13.5	+5V@33mA	1.75×1.10	Die
PLN153-0618B1	6-18	24	1.3	14	+5V@33mA	1.60×1.00	Die
PLN153-0618B2	6-18	21.5	1.3	- 4/17	+5V@78mA	1.60×1.20	Die
PLN165-0618A1	6-18	21	1.1	15.5	+3V@62mA	2.50×1.30	Die
PLN172-0618A2	6-18	20	1.5	16.5	+3.5V@73mA	1.60×0.80	Die
PLN174-0620B2	6-20	20	2.6	17	+5V@50mA	1.50×1.00	Die
PLN99-0713C1	7-13	26	1.4	11	+5V@40mA	2.80×2.40	Die
PLN103-0713C1	7-13	25	1.2	14.5	+5V@35mA	1.60×1.00	Die
PLN114-0713C1	7-13	25.5	0.65	8	+5V@22mA	1.55×1.10	Die
PLN114-0713C2	7-13	25	0.8	11	+5V@29.7mA	1.45×1.00	Die
PLN149-0713C1	7-13	26	0.9	12	+5V@33mA	1.60×0.988	Die

Low Noise Amplifier

Product Model	Working frequency- (GHz)	Gain - (dB)	Noise Figure - (dB)	P1dB (dBm)	powered by	Chip Area (mm*mm)	Package
PLN152-0713C1	7-13	25.5	0.9	10.7	+5V@28mA	1.60×1.00	Die
PLN167-0713A1	7-13	26	1.1	- 9/17	+5V@80mA	1.55×1.00	Die
PLN164-0714A2	7-13.5	16	1.2	16	+3V@47mA	2.00×1.00	Die
PLN08-0812C2	8-12	28	1.2	13	+4V@59mA	2.00×1.10	Die
PLN36-0812C1	8-12	32	1	11.5	+5V@31mA	2.50×1.40	Die
PLN55-0812C1	8-12	21.5	0.9	13.5	+5V@32mA	1.80×0.79	Die
PLN65-0812C1	8-12	26	1.2	11.8	+5V@30mA	1.75×1.10	Die
PLN81-0812C1	8-12	9	2.5	14	+5V@16mA	1.30×1.20	Die
PLN82-0812C1	8-12	10	2	13	+ 3.3V@12mA	1.20×1.00	Die
PLN121-0812C1	8-12	12	2	21.5	+5V@75mA	1.85×1.10	Die
PLN123-0812C1	8-12	12	2.2	21	+5V@72mA	1.85×1.10	Die
PLN150-0812C1	8-12	24	1.2	12	+5V@27mA	1.80×1.10	Die
PLN151-0812C1	8-12	24	1.2	10.8	+5V@27mA	2.00×1.00	Die
PLN166-0812A3	8-12	21	0.95	12.5	+5V@36mA	1.60×1.10	Die
PLN177-1013A1	10-13	23.8	1	14.5	+5V@46.5mA	1.50×1.00	Die
PLN89-1018C1	10-18	21	1.2	13	+5V@33mA	1.13×0.80	Die
PLN183-1020B2	10-20	20	1.9	19.5	+5V@62mA	1.40×1.00	Die
PLN57-1220C1	12-20	28	1.3	6	+5V@15mA	1.80×0.86	Die
PLN58-1525C1	15-25	20	1.4	6.5	+5V@15mA	1.56×0.81	Die
PLN169-1545A2	15-45	12	2.5	15	+5V@47mA	1.85×1.60	Die
PLN72-1722C1	17-22	26.5	1.2	4	+5V@14mA	1.50×0.75×0.07	Die
PLN86-1726C1	17-26	24	1.5	6	+5V@13mA	1.50×0.75×0.07	Die
PLN85-1745C1	17-45	22.5	2.3	13	+4V@69mA	1.60×0.75×0.07	Die
PLN12-1826C2	18-26	19	1.5	7	+1.5V@61mA	1.50×2.00	Die
PLN185-1840A1	18-40	16.5	2.7	13	+5V@71.8mA	1.925×1.60	Die
PLN73-2232C1	22-32	25.5	1.45	3	+5V@15mA	1.50×0.65×0.07	Die
PLN170-2440A1	24-40	20	1.9	12.5	+5V@41.5mA	1.60×1.00	Die
PLN171-2443A1	24-43	20	3	7.5	+5V@25.5mA	1.50×0.70	Die
PLN84-2443C1	24-43	26	1.65	6	+5V@20mA	1.50×0.70×0.07	Die

Low Noise Amplifier

Product Model	Working frequency (GHz)	Gain (dB)	Noise Figure - (dB)	P1dB (dBm)	powered by	Chip Area (mm*mm)	Package
PLN64-3237C1	32-37	27	2.6	5	+5V@20mA	2.29×0.92	Die
PLN15-3238C1	32-38	23	2.3	13	+5V@65mA	2.12×1.60	Die
PLN75-3252C1	32-52	26.5	1.7	5	+5V@12mA	1.40×0.75×0.07	Die
PLN74-3743C1	37-43	26	1.7	4	+5V@15mA	1.30×0.75×0.07	Die
PLN76-6090C1	60-90	21	3.2	10	+2.5V@67mA	2.37×1.00×0.07	Die
PLN16-075110C1	75-110	23	2.8	1	+1V@33mA	2.00×3.00	Die

Power Amplifier

Product Model	Working frequency- (GHz)	Gain - (dB)	P1dB (dBm)	Psat - (dBm)	powered by	Chip Area (mm*mm)	Package
PPA59-0045C2	DC-45	16	22	24	+8V@160mA	2.40×1.15×0.07	Die
PWP01-0046C1	DC-46	16	21	23	+5V@195mA	1.27×1.67	Die
PPA62-0075C1	DC-75	12	15	—	+8V@95mA	2.12×0.78×0.07	Die
PGPA43-0006C1	0.3-6	10	—	40	+28V@500mA	3.30×2.40	Die
PGPA74-0206C1	1.8-6.2	26	—	45	+28V@1.75A	4.25×3.50×0.075	Die
PPA74-0102C1	1.9-2.4	29	—	33.5	+8V@0.6A	2.90×1.90	Die
PPA16-0206C1	2-6	20	25	27	+5V@240mA	2.10×2.00	Die
PGPA26-0206C1	2-6	24	—	41	+28V@1.2A	2.80×2.10×0.08	Die
PGPA60-0206C1	2-6	26	—	45	+28V@1.75A	4.25×3.55×0.075	Die
PDA09-0206C1	2-6	26	20	twenty one	+5V@65mA	1.51×1.125	Die
PGPA80-0209C1	2-8.5	14	—	41	+28V@1.3A	3.20×3.60	Die
PGPA20-0218C1	2-18	12	—	40	+28V@1.7A	5.00×3.30×0.08	Die
PGPA46-0218C1	2-18	7	—	35	+28V@630mA	2.70×1.65×0.08	Die
PPA19-0220C1	2-20	9.5	28	29.5	+10V@292mA	2.60×1.40	Die
PGPA47-0206C1	2.5-6.2	17	—	45	+28V@1.5A	3.20×3.35×0.08	Die
PGPA67-0204C1	2.7-3.5	21	—	44	+28V@0.8A	2.30×1.80	Die
PGPA30-0408C1	4-8	20	—	43	+28V@1.7A	2.90×3.35×0.08	Die
PGPA93-0408C1	4-8	17	—	47	+28V@1.6A	3.50×5.50	Die

Power Amplifier

Product Model	Working frequency- (GHz)	Gain - (dB)	P1dB (dBm)	Psat - (dBm)	powered by	Chip Area (mm*mm)	Package
PGPA31-0410C1	4-10	20	—	45	+28V@1.5A	4.05×4.15×0.08	Die
PDA07-0411C1	4-11	[23]	20	[22]	+4V@120mA	1.50×1.00	Die
YDA01-0422C1	4-22	[21]	18.5	19.5	+5V@120mA	1.40×1.00	Die
PPA05-0407C1	4.5-7	25	[23]	[24]	+5V@130mA	1.85×1.05	Die
PGPA82-0506C1	5-6	[24]	—	47	+28V@2A	3.10×3.50	Die
PGPA83-0506C1	5-6	26	—	49	+28V@2.6A	3.50×5.80	Die
PGPA84-0513C1	5-13	19	—	41	+28V@0.4A	3.30×2.20	Die
PGPA85-0513C1	5-13	18	—	30	+28V@0.2A	2.10×1.00	Die
PGPA14-0618C1	6-18	17	—	42	+28V@2A	3.90×3.40	Die
PPA68-0618C1	6-18	[23]	31	32	+6V@480mA	2.45×2.35	Die
PGPA21-0618C1	6-18	12	—	30	+28V@300mA	2.10×1.70×0.08	Die
PGPA22-0618C1	6-18	12	—	33	+28V@400mA	2.10×1.70×0.08	Die
PGPA75-0618C1	6-18	20	—	45	+28V@4.5A	4.52×5.82	Die
PGPA81-0618C1	6-18	18	—	40	+28V@1A	3.00×1.80	Die
PPA67-0620C1	6-20	13.2	18.7	—	+5V@112mA	1.25×1.15	Die
PDA02-0614B1	6.5-13.5	[22]	24.5	25	+5V@145mA	2.35×1.10	Die
PPA08-0713C1	7-13	20	[21]	[22]	+5V@130mA	1.73×1.04	Die
PGPA12-0713C5	7-13	23.5	—	45.5	+28V@1.7A	3.50×3.20	Die
PGPA86-0711C1	7-10.5	25	—	49	+28V@3.3A	3.70×6.00	Die
PGPA91-0713C1	7-13	34	—	45	+28V@1.05A	3.50×3.40×0.075	Die
PDA08-0711C1	7.5-11	[24]	27.5	29	+8V@225mA	3.35×1.90	Die
PPA96-0711A9	7.5-11.5	22.5	—	36.5	+8V@1.2A	3.45×2.60	Die
PPA96-0811A8	8-11	22.5	—	37	+8V@1.4A	3.45×2.60	Die
PPA107-0811A1	8-11	26.5	36.5	37	+8.3V@1500mA	4.00×2.60	Die
PDA10-0812A3	8-11.5	20	31	31.5	+8V@324mA	3.20×1.40	Die
PPA12-0812C1	8-12	16	—	27	+8V@110mA	1.65×1.25	Die
PPA36-0812SC1	8-12	17	22.8	—	+8V@114mA	1.30×1.00	Die
PPA40-0812C1	8-12	[24]	—	40.5	+8V@2.8A	3.65×4.00	Die
PPA57-0812SC1	8-12	24.3	—	33.5	+8V@835mA	2.80×1.50	Die

Power Amplifier

Product Model	Working frequency- (GHz)	Gain - (dB)	P1dB (dBm)	Psat - (dBm)	powered by	Chip Area (mm*mm)	Package
PGPA13-0812C1	8-12	14	—	29	+28V@0.17A	1.95×1.35×0.08	Die
PGPA63-0812C1	8-12	23	—	42	+28V@470mA	2.98×1.82	Die
PGPA64-0812C1	8-12	23	—	48.5	+28V@2.0A	4.00×5.80	Die
PGPA76-0812C1	8-12	17	—	39	+28V@0.2A	2.30×1.15	Die
PPA79-0812C1	8-12	24.5	24.5	25	+5V@160mA	2.35×1.10	Die
PGPA92-0812A1	8-12	31.5	—	46.5	+28V@1.64A	4.00×4.00×0.075	Die
PDA05-0812C1	8-12	16	24	25	+8V@126mA	1.90×1.00	Die
PDA06-0812C1	8-12	16	24	25	+8V@115mA	1.40×1.20	Die
PGPA72-0818C1	8-18	18	—	46	+28V@2.5A	3.90×5.50	Die
PGPA73-0818C1	8-18	16	—	44	+28V@1.2A	3.20×3.20	Die
PGPA15-0811C1	8.5-10.5	23	—	45	+28V@2.5A	3.00×2.80×0.08	Die
PGPA18-0811C1	8.5-10.5	21	—	47	+28V@2.5A	4.00×5.07×0.08	Die
PDA10-0812A2	8.5-11.5	20	31	31.5	+8V@324mA	3.20×1.40	Die
PGPA78-0910C1	9.2-10.4	24	—	46	+28V@1.5A	3.00×3.03	Die
PPA02-1012C1	10-12	22	18.5	—	+8V@60mA	1.50×2.25	Die
PPA24-1012C1	10-12	27	—	37.5~38.2	+8V@2200mA	3.18×3.00	Die
PPA13-1016C1	10-16	19	16.5	—	+5V@65mA	1.40×0.80	Die
PGPA87-1018C1	10-18	19	—	41	+28V@0.8A	3.20×2.25	Die
PPA95-1116C1	11.5-15.5	18	—	—	+8V@0.4A	2.00×1.30	Die
PGPA51-1218C1	12-18	19	—	44	+28V@1.5A	3.40×4.40	Die
PGPA89-1216C1	12.2-16	19	—	46	+28V@0.3A	4.20×6.02	Die
PGPA52-1316C1	13.75-16.3	18	—	45.5	+28V@0.5A	5.00×6.10	Die
PGPA36-1418C1	14-18	22	—	42	+28V@0.8A	3.00×2.00	Die
PGPA77-1418C1	14-18	15	—	37	+28V@0.25A	1.50×1.00	Die
PGPA66-1418C1	14-18	21	—	47	+28V@1.8A	3.60×5.90	Die
PGPA17-1417C1	14.2-16.8	20.5	—	48.5	+28V@1.2A	3.60×5.90×0.08	Die
PGPA38-1517C1	15-17	21	—	40.5	+28V@0.68A	2.30×1.30×0.08	Die
PPA14-1518C1	15-18	6.5	23	—	+5V@194mA	1.60×1.10	Die
PPA63-1543C1	15-43	20.2	29	30	+5V@900mA	3.94×2.48×0.07	Die

Power Amplifier

Product Model	Working frequency-(GHz)	Gain -(dB)	P1dB(dBm)	Psat- (dBm)	powered by	Chip Area(mm*mm)	Package
PGPA40-1618C1	16-18	22	—	45	+28V@2.3A	3.40×3.40	Die
PPA69-1722C1	17.5-22	25	26	—	+5V@180mA	1.80×1.10	Die
PGPA79-1826C1	18-26.5	25	—	41	+22V@900mA	4.10×3.20×0.08	Die
PPA64-1840C1	18-40	22.5	—	38	+18V@1200mA	4.20×2.44×0.05	Die
PGPA55-2640C1	26-40	22	—	40.5	+22V@800mA	3.40×3.40×0.08	Die
PPA46-2731C1	27-31	22.5	—	43	+22V@900mA	3.26×4.80×0.08	Die
PPA48-2731C1	27-31	22.5	—	41	+22V@520mA	3.26×3.00×0.08	Die
PGPA41-3137C1	31-37	21	—	41	+22V@1.0A	3.60×3.60×0.08	Die
PPA29-3337C1	33-37	19	—	30	+5V@580mA +6V@620mA	2.12×2.22	Die
PGPA42-3337C1	33-37	twenty three	—	45	+28V@2.1A	3.60×6.20×0.08	Die
PPA35-3565C1	35-65	22	—	21.5	+4V@500mA	2.50×2.20	Die
PPA49-3642C1	36-42	22.1	—	40.2	+18V@0.85A	3.30×2.75×0.05	Die
PPA47-4653C1	46-53	18.2	—	41.5	+18V@1400mA	2.56×4.80×0.05	Die
PPA50-4653C1	46-53	20.5	—	39	+18V@600mA	2.56×2.80×0.05	Die
PPA53-9098C1	90-98	20.5	—	34	+18V@850mA	4.50×2.60×0.05	Die
PPA87-9098C1	90-98	20	—	29	+18V@225mA	3.70×2.10×0.05	Die

Attenuator

Product Model	Working frequency-(GHz)	Insertion loss(dB)	Attenuation range(dB)	Attenuation accuracy(dB)	Control Level	Chip Area(mm*mm)	Package
PAT08-00086C1	DC-8	2.4	1-51	±(0.2+4%ATT)	0/-5V	3.50×1.40	Die
PAT09-00181C1	DC-18	1.4	0-20	±0.5	0/-5V	1.10×1.45	Die
PAT14-00186C1	DC-18	4.5	0.5-31.5	±(0.2+4%ATT)	0/+5V	2.40×1.20	Die
PAT16-06183C1	DC-18	2.9	5-35	—	0/+5V	1.80×1.20	Die
PAT17-06186C1	DC-18	4.5	0.5-31.5	—	0/+5V	2.40×1.20	Die
PAT20-0018SC1	DC-18	—	0-3.5	±(0.3+5%Ai)	—	0.70×0.80	Die
PAT31-0018C1	DC-18	—	5-35	0.3	—	2.17×1.13	Die
PAT32-0018C1	DC-18	4.1	15.5	±0.4Max	—	1.50×1.35	Die

Attenuator

Product Model	Working frequency-(GHz)	Insertion loss (dB)	Attenuation range (dB)	Attenuation accuracy (dB)	Control Level	Chip Area (mm*mm)	Package
PAT68-0018A4	DC-18	4	0-27.9	0.4	0/+5V	2.38×1.55	Die
PAT18-0020SC1	DC-20	0.25	0/0.5/1/1.5/ 2/2.5/3/3.5	0.1	—	0.75×0.70	Die
PAT23-0020SC2	DC-20	—	0/1/2/3/4/5/6/ 7/8/9/10/11	±0.2	—	0.60×0.55 2.07×0.55	Die
PAT28-0020SC1	DC-20	—	0-11	±（0.3+5%Ai ）	—	0.534×0.800	Die
PAT29-0020SC1	DC-20	0.3	0/0.5/1/1.5/2	—	—	1.00×0.60	Die
PAT65-00306C1	DC-30	4	0-31.5	±0.5/±1.5	—	2.40×1.20	Die
PAT24-0040SC2	DC-40	—	6/8/10	±0.30	—	0.60×0.80(6/8dB) 0.60×0.70(10dB)	Die
PAT25-0040SC3	DC-40	—	0/0.5/1	±0.3	—	0.70×1.35	Die
PAT26-0040SC4	DC-40	—	0/0.5/1/2	±0.3	—	0.70×1.70	Die
PAT27-0040SC5	DC-40	—	1/2/3	±0.3	—	0.70×1.35	Die
PAT21-0040SC1	DC-40	—	0/1/2/3/4/5/6/ 8/10/15/20/30	—	—	0.55×0.65 0.71×0.63	Die
PAT22-0040SC1	DC-40	—	0/0.5/1	±0.2	—	1.15×0.65	Die
PAT36-0040SC1	DC-40	—	8-8.13	—	—	0.68×0.60	Die
PAT37-0040SC1	DC-40	—	9-9.15	—	—	0.68×0.60	Die
PAT38-0040SC1	DC-40	—	1.9-2.13	—	—	0.68×0.60	Die
PAT39-0040SC1	DC-40	—	11.05-11.2	—	—	0.68×0.60	Die
PAT40-0040SC1	DC-40	—	0.9-1.1	—	—	0.68×0.60	Die
PAT41-0040SC1	DC-40	—	4.84-5	—	—	0.68×0.60	Die
PAT42-0040SC1	DC-40	—	2.82-3	—	—	0.68×0.60	Die
PAT43-0040SC1	DC-40	—	3.8-3.96	—	—	0.68×0.60	Die
PAT10-00186C1	0.5-18	5.1	1-63	±(0.1+5%ATT)	0/-5V	3.60×1.45	Die
PAT12-00183C1	0.5-18	2.7	5-35	±(0.2+3%ATT)	0/-5V	2.10×1.40	Die
PAT13-00185C1	0.5-18	3.5	0.5-15.5	±(0.2+5%ATT)	0/-5V	2.70×1.40	Die
PAT15-01181C1	1-18	0.7	0.5-10	±0.3	0/-5V	0.82×1.10	Die
PAT19-02066C1	2-6	2.4	0.5-31.5	±(0.1+2%) ±(0.1+3%)	—	2.00×1.20	Die
PAT35-0615SC1	6-15	—	4/5	—	—	0.59×0.93	Die

Phase Shifter

Product Model	Working frequency-(GHz)	Insertion loss (dB)	Phase shift range (°)	Phase shift accuracy (°)	Control Level	Chip Area (mm*mm)	Package
PPS11-01026C2	0.85---1.35	6	360	- 3~3	0/+5V	3.77×-1.37	Die
PPS13-04076C1	4.5---6.5	4.5	360	2	0/+5V	2.80×-1.20	Die
PPS14-05066C1	5---6	4.5	360	0.4	0/+5V	2.80×-1.20	Die
PPS24-06186C1	6---18	13	180	5.625	—	3.20-×-3.50	Die
PPS07-06186C1	6---18	10.8	360	—	0/+5V	3.50×-3.20	Die
PPS25-0713A2	7---13	6	354.375	3	—	2.97-×-2.10	Die
PPS26-07136C1	7---13	8.5	354.375	4.9	—	2.97-×-2.10	Die
PPS27-08126C1	8---12	8	354.375	3.6	—	4.00-×-2.10	Die

switch

Product Model	Chip Function	Working frequency-(GHz)	Insertion loss (dB)	Isolation (dB)	Standing Wave Ratio	Maximum withstand power (dBm)	Switching time (ns)	Control Level	Chip Area (mm*mm)	Package
PSW13-000613C1	SP3T	DC---6	1.4	35	1.6/1.4	27	—	0/+3.3V 0/+5V	1.85-×-1.30	Die
PSW72-000611C1RE	SPDT	DC---6	0.5	50	—	36	—	—	1.77-×-1.28	Die
PSW28-001012C1	SPDT	DC---10	0.9	60	1.25@6GHz 1.39@10GHz	—	—	—	1.35-×-1.45	Die
PSW01-001212C1-	SPDT	DC---12	1.0	50	1.3	30	20	0/-5V	1.50-×-1.50	Die
PSW70-001212C1PRE	SPDT	DC---12	0.6	50	1.55/1.43	36	—	—	1.00-×-1.45	Die
PSW30-001212C1	SPDT	DC---12	1.34	56	1.54/1.54	—	—	—	1.35-×-1.45	Die
PSW50-001212C1	SPDT	DC---12	0.8	60	—	36	—	0/±5V	1.25-×-1.26	Die
PSW02-001812C1-	SPDT	DC---18	1.8	55	1.3/1.4	30	20	0/-5V	1.50-×-1.50	Die
PSW69-001813C1PRE	SP3T	DC---18	1.6	60	1.3/1.3	36	—	—	1.55-×-1.45	Die
PSW52-001811C1	SPST	DC---18	1.2	60	—	—	—	—	1.60-×-0.91	Die
PSW03-001813C1-	SP3T	DC---18	1.0	45	1.3	30	20	0/-5V	1.50-×-1.50	Die
PSW04-001811C1	SPST	DC---18	2.0	55	1.4/1.4	30	20	0/-5V	1.50-×-1.00	Die
PSW21-0018SC1	SPDT	DC---18	1.6	30	—	40	650	0/±5V	1.25-×-1.11	Die
PSW27-001813C1	SP3T	DC---18	1.85	40	1.5	—	—	—	1.55-×-1.55	Die
PSW42-001813C1	SP3T	DC---18	1.4	60	—	36	—	0/-5V	1.45-×-1.50	Diie
PSW73-001911C1PRE	SPST	DC---19	1.0	50	—	—	—	—	1.76-×-1.14	Die

switch

Product Model	Chip Function	Working frequency-(GHz)	Insertion loss (dB)	Isolation (dB)	Standing Wave Ratio	Maximum withstand power (dBm)	Switching time (ns)	Control Level	Chip Area (mm*mm)	Package
PSW15-002013C1	SP3T	DC---20	1.8	45	1.2/1.2	27	—	0/+3.3V 0/+5V	1.45-×-1.40	Die
PSW17-002014C1	SP4T	DC---20	2.5	55	1.4/1.4	27	—	0/+3.3V 0/+5V	1.70-×-1.70	Die
PSW18-002016C1	SP6T	DC---20	2.0	50	1.3/1.4	27	—	0/+3.3V 0/+5V	1.85-×-2.00	Die
PSW24-002014C1	SP4T	DC---20	1.8	50	—	—	—	—	2.00-×-1.50	Die
PSW25-002014C1	SP4T	DC---20	1.8	37	—	—	—	—	2.00-×-1.50	Die
PSW26-002012C1	SPDT	DC---20	1.6	55	—	—	—	—	1.525-×-1.425	Die
PSW29-002012C1	SPDT	DC---20	1.85	55	1.46	—	—	—	1.55-×-1.45	Die
PSW60-002014C1PRE	SP4T	DC---20	1.4	50	—	—	—	—	2.00-×-1.50	Die
PSW61-002014C1PRE	SP4T	DC---20	1.4	60	—	—	—	—	2.00-×-1.50	Die
PSW74-002012C1PRE	SPDT	DC---20	1.0	65	—	—	—	—	1.62-×-1.70	Die
PSW07-004011C1-	SPST	DC---40	0.8	15	1.4	30	20	0/-5V	1.10-×-1.08	Die
PSW12-000612C1	SPDT	0.1---6	1.4	35	—	—	—	0/+5V	1.00-×-0.76	Die
PSW62-000612C1PRE	SPDT	0.1---6	0.5	50	—	+ 36	—	—	1.00-×-1.00	Die
PSW79-0006A4	SPDT	0.1---6	0.6	55	—	+ 36	20	0~+0.5V +3~+7V	1.35-×-1.35	Die
PSW78-0008A2	SPDT	0.1---8	1.0	55	—	+ 37	160	0~+0.5V +2V~Vdd	1.35-×-1.35	Die
PSW80-0018A4	SPDT	0.1---18	1.5	55	—	+ 39	25	0~-0.2V - 3~-7V	1.35-×-1.35	Die
PSW05-001811C1-	SPST	0.5---18	1.5	40	1.6/1.6	30	20	0/±5V	1.50-×-1.20	Die
PSW10-001811C1	SPST	0.5-–-18	1.5	40	1.6/1.6	30	20	0/+5V	1.50-×-1.10	Die
PSW57-001812C1PRE	SPDT	0.5---18	1.7	55	1.25	—	—	—	1.50-×-1.20	Die
PGSW04-051212C1	SPDT	5---12	0.8	43	—	48	10	0/-28V	2.00-×-1.20-×0.075	Die
PSW09-061812C1	SPDT	6---18	1.5	50	—	—	—	0/+5V	1.50-×-1.20	Die
PSW11-071312C1-	SPDT	7---13	2.2	36	1.5/1.5	—	30	0/+5V	1.50-×-1.00	Die
PGSW06-071312C2PRE	SPDT	7---13	1.2	45	—	48	—	—	2.50-×-1.60-×-0.075	Die
PSW46-081212C1	SPDT	8---12	0.7	42	—	36	30	0/-5V	1.25-×-1.80	Die
PSW06-254012C1	SPDT	25---40	1.6	27	1.5	30	20	0/-5V	1.05-×-1.20	Die

Time Delay

Product Model	Working frequency-(GHz)	Chip Number of digits	Insertion loss (dB)	Delay Range (ps)	Delay Step (ps)	Delay Accuracy (ps)	Control Level	Chip Area (mm*mm)	Package
PTD17-00047C1PRE	0.5---4	7	16	896	14	14	—	5.00-×-5.80-	Die
PTD14-02186C1PRE	2---18	6	20	0-315	5	5	—	3.50-×-2.40	Die
PTD18-05134C1PRE	5---13	4	—	160	20	20	—	3.50-×-2.50	Die
PTD01-06185C1	6---18	5	7	0-310	10	2	0/+4V	3.50×-4.00	Die
PTD02-06181C1	6---18	1	6	0-330	330	TBD	0/+4V	5.00×-2.00	Die
PTD15-06185C1PRE	6---18	5	4.2	10-160	10	10	—	3.50-×-4.00	Die
PTD16-06181C1PRE	6---18	1	—	320	—	—	—	5.00-×-2.00	Die
PTD10-07136C1	7---13	6	10	100.8	1.6	TBD	0/+3.3V 0/+5V	3.60×-1.30	Die

Mixer

Product Model	Working frequency-(GHz)	IF Range (GHz)	LO input power (dBm)	P1dB-(dBm)	Chip Area (mm*mm)	Package
PMX25-0001C1	0.4---0.8	0.15	4±2	16.5	2.90-×-2.60	Die
PMX09-0102C1	0.6---1.4	DC---0.8	13	—	1.65×-1.15	Die
PMX30-0102C1PRE	1---2	DC---0.5	0±2	18.5	2.90-×-2.60-	Die
PMX11-0102C1	1.2---2	DC---1	13	—	1.40×-0.94	Die
PMX12-0204C1	2---4	DC---2	13	—	1.65×-1.20	Die
PMX13-0408C1	4---8	DC---3.5	13	—	1.45×-0.80	Die
PMX14-0620C1	6---20	DC---6	13	—	1.20×-0.90	Die
PMX34-0624A1/A1M	6---24	0.1---6	13	13	1.30-×-0.88	Die
PMX34-0624A2/A2M	6---24	0.1---6	13	13	1.30-×-0.88-	Die
PMX33-1644A4	16---44	DC---18	13	12	1.15×-0.85	Die
PMX33-1742A6	17---42	DC---20	13	12	1.25×-0.90	Die
PMX16-1828C1	18---28	DC---6	17	—	1.40×-1.10	Die
PMX17-1840C1	18---40	DC---18	14	—	0.90×-0.70	Die
PMX18-2840C1	28---40	DC---6	17	—	1.35×-0.90	Die

Passive microwave chips

Power Divider

Product Model	Working frequency-(GHz)	Insertion loss (dB)	Input standing wave	Output standing wave	Isolation (dB)	Chip Area (mm*mm)	Package
PDIV24-00022C1	0.5---1.5	0.95	1.4	1.3	17	1.60×-1.15	Die
PDIV39-00022C1	0.5---2	0.6	—	—	20	1.85×-1.20	Die
PDIV25-00042C1	0.8---4	1.2	1.4	1.4	18	1.70×-0.95	Die
PDIV38-00042C1	0.8---4	0.6	—	—	18	1.80×-1.20	Die
PDIV26-01032C1	1---3	0.9	1.4	1.4	18.5	1.30×-1.00	Die
PDIV41-01032C1	1---3	0.5	—	—	20	1.80×-1.66	Die
PDIV43-01092C1	1---9	1.2	—	—	17	2.72×-2.30	Die
PDIV40-01182C1	1---18	0.8	—	—	25	2.73×-2.44	Die
PDIV17-02062C2	2---6	1.0	1.4	1.3	19	1.10×-0.80	Die
PDIV32-0206SC1	2---6	1.1	1.5	1.4	17	1.40×-0.80	Die
PDIV42-02062C1	2---6	0.6	—	—	20	1.55×-0.94	Die
PDIV18-02082C1	2---8	0.9	1.7	1.5	17	1.00×-0.80	Die
PDIV33-0208SC1	2---8	1.1	1.7	1.5	16	1.40×-0.80	Die
PDIV36-02082C1	2---8	0.4	—	—	18	1.55×-1.10	Die
PDIV19-02182C2	2---18	1.4	1.5	1.3	16	2.00×-2.00	Die
PDIV37-02182C1	2---18	0.6	—	—	25	2.45×-1.82	Die
PDIV52-02182C1	2---18	0.4	—	—	22	1.48×-0.94	Die
PDIV13-0618SC1	6---18	0.8	1.4	1.3	17	1.00×-0.80	Die
PDIV14-0618SC1	6---18	1.1	1.4	1.26	18.8	1.40×-0.80	Die
PDIV20-06182C2	6---18	1.1	1.6	1.4	19	1.10×-0.80	Die
PDIV35-06182C1	6---18	0.4	1.4	1.2	15	1.40×-0.90	Die
PDIV12-07132C1-	7---13	0.55	1.4	1.4	25	1.10×-0.85	Die
PDIV16-07133C1	7---13	1.0	1.3	1.3	- 25	1.45×-1.00	Die
PDIV27-08122C1	8---12	0.45	—	—	21	0.90×-0.95	Die
PDIV28-08122C2	8---12	0.4	—	—	22	1.35×-0.90	Die
PDIV29-08122C3	8---12	0.5	—	—	27	1.30×-1.60	Die
PDIV48-08122C1	8---12	0.2	—	—	25	1.48×-0.94	Die
PDIV46-10182C1	10-18	0.4	—	—	25	1.04×-0.89	Die

Power Divider

Product Model	Working frequency-(GHz)	Insertion loss (dB)	Input standing wave	Output standing wave	Isolation (dB)	Chip Area (mm*mm)	Package
PDIV30-10202C1	10---20	0.6	—	—	23	1.35×-0.90	Die
PDIV31-10352C1	10---35	1.1	—	—	18	1.10×-0.90	Die
PDIV05-12182C1	12-18	0.5	1.3	1.2	24	1.10×-1.05	Die
PDIV21-12182C2	12-18	0.7	1.3	1.1	18	1.10×-0.80	Die
PDIV50-12182C1	12-18	0.3	—	—	25	1.02×-0.87	Die
PDIV06-16282C1	16---28	0.5	1.3	1.2	25	1.40×-1.00	Die
PDIV22-18262C1	18---26	0.5	1.2	1.1	17.5	1.00×-1.00	Die
PDIV49-18262C1	18---26	0.4	—	—	20	1.53×-0.90	Die
PDIV51-18402C1	18---40	0.3	—	—	20	1.53×-1.21	Die
PDIV08-20362C1	20---36	0.4	1.1	1.1	25	1.00×-0.90	Die
PDIV23-22244C1	22---24	0.7	1.5	1.2	17	2.30×-1.10	Die
PDIV44-26312C1	26---31	0.3	—	—	20	1.36×-1.03	Die
PDIV47-26402C1	26---40	0.35	—	—	20	1.48×-0.88	Die
PDIV09-30402C1	30-40	0.4	1.1	1.1	25	0.90×-0.70	Die
PDIV45-30402C1	30-40	0.3	—	—	20	1.36×-0.94	Die

Limiter

Product Model	Working frequency-(GHz)	Insertion loss (dB)	Withstand power (dBm)	Standing wave coefficient	Output Level (dBm)	Chip Area (mm*mm)	Package
PLM36-0006C1	DC---6	0.3	45	—	18	1.64×-0.80	Die
PLM21-0012SC1	DC---12	0.4	46	—	16	1.15×-0.80	Die
PLM14-0018SC1	DC---18	0.44	43	—	16	1.40×-1.00	Die
PLM10-0020SC1-	DC---20	0.5	37	—	16	1.40×-0.85	Die
PLM40-0020C1	DC---20	0.5	41	—	16	1.42×-0.81	Die
PLM23-0040SC1	DC---40	1.4	40	—	18	1.64×-0.70	Die
PLM37-0040C1	DC---40	1.0	40	—	18	1.64×-0.70	Die
PLM11-0104SC1	1---4	0.3	45	—	13	1.72×-0.80	Die
PLM18-0104SC1	1---4	0.35	47	—	15	1.82×-0.80	Die
PLM02-0006SC2	1---6	0.3	46	—	15	1.92×-1.22	Die

Limiter

Product Model	Working frequency-(GHz)	Insertion loss (dB)	Withstand power (dBm)	Standing wave coefficient	Output Level (dBm)	Chip Area (mm*mm)	Package
PLM38-0106C1	1---6	0.4	45	—	15	1.70×-1.00	Die
PLM34-0108C1	1---8	0.2	43	—	15	1.64×-0.80	Die
PLM39-0108C1	1---8	0.4	40	—	15	1.72×-0.81	Die
PLM03-0112SC1	1---12	0.3	36	1.2/1.2	16	1.00×-0.50	Die
PLM25-0020C1	1---20	0.5	43	—	16	1.20×-0.60	Die
PLM39-0120C1	1---20	0.4	41	—	18	1.40×-0.81	Die
PLM04-0122SC1	1---22	0.5	37	1.4/1.4	17	1.20×-0.75	Die
PLM28-0101C1	1.2---1.4	0.25	47	—	14	1.72×-0.85	Die
PLM31-0101C1	1.2---1.4	0.12	45	—	14	2.00×-0.85	Die
PLM32-0101C1	1.2---1.4	0.17	44	—	14	2.00×-0.85	Die
PLM30-0105C1	1.5---4.5	0.35	42	—	14	2.00×-1.02	Die
PLM02-0206SC1	2---6	0.4	43	1.3/1.3	14	1.90×-1.30	Die
PLM15-0208SC1	2---8	0.45	—	—	14.8	1.80×-1.10	Die
PLM29-0309C1	3---9	0.3	43	—	15	2.00×-1.25	Die
PLM42-0325C1	3---25	0.5	40	—	17	1.10×-1.10	Die
PLM41-0408C1	4---8	0.45	40	—	15	1.80×-1.00	Die
PLM07-0618SC1	6---18	0.3	40	1.4/1.4	17	1.50×-0.80	Die
PLM27-0622C1	6---22	0.5	45	—	17	1.10×-0.75	Die
PLM33-0713C1	7---13	0.3	40	—	15.5	1.19×-0.80	Die
PLM19-0713SC1	7---13	0.7	47	—	15	2.40×-1.05	Die
PLM09-0812SC1	8---12	0.3	43	—	15	1.38×-0.92	Die
PLM13-0812SC1	8---12	0.7	50	—	16	1.72×-1.02	Die
PLM20-0812SC1	8---12	0.4	—	—	15.5	1.70×-1.00	Die
PLM44-0812C1	8---12	0.4	43	—	15.5	1.70×-1.00	Die

filter

Product Model	Working frequency- (GHz)	Passband Insertion Loss (dB)	Stopband Attenuation	Return loss (dB)	Chip Area (mm*mm)	Package
PFL04-0001C1	DC--1	1.7	28.4dB-@1.8GHz 41.2dB@2-GHz	- 21/--24	1.60×0.70	Die
PFL08-0002C1	DC---1.5	1.8	24dB@2.4GHz - 43dB@3GHz	- 18	2.10×0.80	Die
PFL07-0003C1	DC---3	1.6	23dB@4.5GHz- 42dB@5.6GHz	- 23	1.70×0.80	Die
PFL05-0005C1	DC---5	1.8	26.4dB@7.2GHz- 41.9dB@9GHz	- 25.5	1.60×0.70	Die
PFL09-0005C2	DC---5	1.9	25dB@7.25GHz- 46dB@9GHz	- 22	1.35×0.70	Die
PFL06-0006C1	DC---6	1.9	26dB@8.1GHz- 43dB@10GHz	- 29.5	1.60×0.70	Die
PFL03-0007C1	DC--7	2.4	25dB@9.3GHz 45dB@10.9-GHz	- 15	1.30×0.70	Die
PFL01-0206C1	2---5	1.5	38dB@1GHz 35dB@8.2GHz	- 20	1.70×1.00	Die
PFL10-0218C1	2---18	1.6	20dB@1.1GHz- 55dB@0.75GHz	- 11	1.60×0.70	Die
PFL02-0420C1	4.5---20	1.9	20dB@2.7GHz- 40dB@2GHz	- 13	1.15×-0.70	Die
PFL11-0620C1	6---20	2.1	19dB@4.2GHz- 42dB@3.1GHz	- 15	1.35×0.80	Die

resistance

Product Model	Maximum current (mA)	Resistance	Port	Chip Area (mm*mm)	Package
PR01-1030SC1	100	10/20/30/40/50Ω	4	0.534×0.534	Die
PR02-3060SC1	1mA/μm(W)	300, 500, 600, 1000 2000, 4000, 6000	2	1.2281×0.594	Die

Detector

Product Model	Working frequency- (GHz)	Dynamic Range	Fast instant response	Maximum input power (dBm)	Logarithmic detection slope (mV/dB)	Chip Area (mm*mm)	Package
PDD07-0223C1	2---23	50dB@±3dB	10ns/20ns	10	20	1.53-×-1.48	Die
PDD05-0240C1	2---40	60dB@±3dB	10ns/20ns	10	18	1.53-×1.48	Die

Detector diode

Product Model	Working frequency- (GHz)	Sensitivity (mV/μW)	Input power (dBm)	Output Matching (dB)	Input Return Loss (dB)	Breakdown voltage - (V)	Chip Area (mm*mm)	Package
PDD01-080110C1	80---110	8.5	<0	- - 15dB-@100GHz	- 15	> 2	0.90-×-0.77	Die

Power Management Chip

DC/DC Power Conversion

Product Model	Function	Features	Power supply voltage Vcc	Output voltage	Output current Iout- (Peak)	Switching frequency - - (Hz)	Chip Area (mm*mm)
PPM07-1816SC1	BuckConversion Circuit	* With synchronous rectification function * Can realize step-down conversion function * Positive pressure to negative pressure function can be realized * With output over-current protection function * Thermal protection function	4.0V~36V	Adjustable	3A	400k	1.16-x-2.32

Negative voltage LDO/Positive voltage LDO

Product Model	Input voltage Vin- - (V)	Output current Iout - (A)	Output voltage Vout - (V)	Quiescent current Iq- (mA)	Voltage drop Vd- (V)	Chip Area (mm*mm)
PPM08-1822SC1	-6~-30	- 1.0	- 5	1.0	1.0	1.45×1.30
PPM09-1825SC1	-4~-30	- 0.5	- 3	1.0	1.0	1.23×1.55
PPM10-1823SC1	3~18	1.5	Adjustable	0.1	0.22V@500mA	0.892×0.80

Positive voltage to negative voltage circuit

Product Model	Input voltage Vin- - (V)	Output current Iout - (A)	Output voltage Vout - (V)	Quiescent current Iq- (mA)	Switching frequency (Hz)
PPM11-1826SC1	2.5~6	320	- Vin/Adjustable	2	1.0M

Low Voltage Power Supply Modulation

Product Model	Output channels	Features	Power supply voltage Vcc	Output current Iout (A)	TR-Max/TF-Max	Chip Area (mm*mm)
PPM12-2111SC1	Single channel	* Input integration and gate functionality * Output integrated discharge circuit	3V~5V	0.8	7ns/13ns	0.74×0.85
PPM13-2117SC1	Single channel	* Integrated negative power protection function * Input integration and gate functionality * Output integrated discharge circuit	3V~5V	1.8	15ns/15ns	1.03×0.95
PPM14-2118SC1	Single channel	* Integrated negative power protection function * Input integration and gate functionality * Output integrated discharge circuit	4.5V~12V	1.2	20ns/20ns	1.55×0.95
PPM15-2119SC1	Dual	* Integrated negative power protection function * Input integration and gate functionality * Output integrated discharge circuit	3V~5V	1/0.2	15ns/15ns	1.03×0.95
PPM01-SC1	Dual	* Integrated gate drive function * Integrated negative pressure protection function	4.5V~7V	0.15	50ns/50ns	1.75×1.15
PPM05-SC1	Dual	* Two independent drive channels * Input and output reverse	3.3V~6V	0.1	20ns/20ns	0.85×1.06

High Voltage Supply Modulation

Product Model	Drive type	Features	Application Scenarios	Supply voltage Vcc	MOS power tube	TR-Max/ TF-Max	Chip Area (mm*mm)
PPM16-2201SC1	PMOS tube driver	* Integrated negative power protection * Integrated two-way gate voltage driver * Integrated two-way 5V modulation * Integrated over-pulse width protection * Integrated discharge circuit	High Power GaN Amplifier Power Modulation	12V~60V	12V~60V	30ns/40ns	2.65×2.37
PPM02-SC1	PMOS tube driver	* Integrated negative power protection * Gate voltage driver	GaN Power Amplifier Modulation	10V~40V	10V~40V	160ns/120ns	4.10×2.80
PPM03-SC1	PMOS tube driver	* Integrated negative power protection * Integrated discharge circuit	GaN Power Amplifier Modulation	15V~80V	15V~80V	450ns/800ns	2.10×2.20

Level conversion drive circuit

Product Model	Features	Power supply voltage Vcc	Input and output logic relationship	Output current Iout - (Peak)	TR-Max/TF-Max	Chip Area (mm*mm)
PPM17-21244SC1	Can realize 16-way 3.3V conversion 5V level conversion function	4.5V~5.5V	Same direction	16mA	7/10ns	2. 82×-1.30

Negative gate voltage drive circuit

Product Model	Function	Features	Power supply voltage Vcc	Output current/voltage	Chip Area (mm*mm)
PPM06-SC1	Can realize gate drive and gate modulation And negative power protection and other functions	Output voltage follower mode full Swing, reference amplification mode <-1V	-5V~-6V	±30mA	5.10×-6.20
PPM04-SC1	Five-digit CNC output negative gate voltage circuit Load capacity 20mA	Five CNC - 1.2V~-3.4V output voltage	- 5V	-1.2V~-3.4V	0.772×-1.012

Internal matching tube

Product Model	Working frequency (GHz)	Power Gain (dB)	Psat (dBm)	PAE (%)	Operating voltage (V)
PFGPA01-0003C1	0.03---2.5	15	40	55	28
PFGPA05-0006CQ1	0.6---6	10	46	49	28
PFGPA08-0006CQ1	0.7---6.2	8	48	48	28
PFGPA13-0001CQ1	0.9---1.2	17	55	60	36
PFGPA02-0204CQ1	2.7---3.5	13	56	50	44
PFGPA03-0204CQ1	2.7---3.5	13	53	60	28
PFGPA11-0304CQ1	3.6---4.8	13	49.3	37	28
PFGPA06-0709CQ1	7.9---9.7	10	56	45	50
PFGPA10-0809CQ1	8.5---9.7	8	54	38	40
PFGPA14-0910CQ1	9-10	10	54	44	40

Packaged products

Multifunctional chip

Product Model	Functional Description	Working frequency (GHz)	Attenuation range/accuracy (dB/dB)	Phase shift range/accuracy (°/°)	P1dB (dBm)	Gain (dB)	Noise Figure (dB)	Chip Area (mm*mm)	Package
PCC32-0812SC1	4-channel 6-bit-phase-shifter 6-bit-attenuator	8-12	31.5/0.5	360/5.625		Rx:13.5,Tx:19.5	3	9.00×9.00	QFN
PCC36-0812SC1	4-channel 6-bit-phase-shifter 6-bit-attenuator	12	31.5/0.5	360/5.625	Rx:-38	Rx:12,Tx:18	3	9.00×9.00	QFN
PCC58-1418CQ1	4-channel 6-bit-phase-shifter 6-bit-attenuator	4-18	31.5/0.5	360/5.625	Rx:1,-Tx:14	Rx:4,Tx:14	13	8.00×8.00	QFN
PCC35-1518SC1	4-channel 6-bit-phase-shifter 6-bit-attenuator	15-18	31.5/0.5	360/5.625	Rx:-25	Rx:15,Tx:16	3.1	9.00×9.00	QFN
PCC59-3238CQ1	4-channel 6-bit-phase-shifter 6-bit-attenuator	32-38	31.5/0.5	360/5.6	Rx:-30	Rx:23,Tx:26	6	5.555×5.855	WLCSP

Low Noise Amplifier

Product Model	Working frequency-(GHz)	Gain -(dB)	Noise Figure -(dB)	P1dB(dBm)	powered by	Chip Area(mm*mm)	Package
PLN109-0004A2C	0.1-3.5	31.5	0.7	19.5	+5V@77.9mA	4.00×4.00×0.85	QFN
PLN111-0004A1C	0.8-4	32	0.7	18.5	+5V@62mA	4.00×4.00×0.85	QFN
PLN96-0109C1C	1-9	27	0.8	14.5	+5V@64mA	4.00×4.00×0.85	QFN
PLN119-0112A2C	1-12	18	1.4	20	+5V@58mA	4.00×4.00×0.85	QFN
PLN112-0206B1C	2-6	27.5	0.6	13.5	+5V@34mA	4.00×4.00×0.85	QFN
PLN120-0220A1C	2-20	16.3	1.6	16	+5V@41mA	4.00×4.00×0.85	QFN
PLN113-0408A1C	4-8	28.3	0.65	13.5	+5V@32.8mA	4.00×4.00×0.85	QFN
PLN114-0713A1C	7-13	25.5	0.8	9.5	+5V@22.8mA	4.00×4.00×0.85	QFN
PLN161-1020CQ1	10-20	24	1.6	0.5	- +5V@10mA	4.00×4.00×1.00	QFN
PLN120-1820CQ1	18-20	16	1.6	13	+3V@18mA	4.00×4.00×1.00	QFN

Power Amplifier

Product Model	Working frequency-(GHz)	Gain -(dB)	P1dB(dBm)	Psat -(dBm)	powered by	Chip Area(mm*mm)	Package
PPA107-0811A2C	8-11	26	37.2	37.5	+8V@1.35A	17.88×8.33×1.58	QFN

Detector

Product Model	Working frequency-(GHz)	Dynamic Range	Fast instant response	Maximum input power(dBm)	Logarithmic detection slope(mV/dB)	Chip Area(mm*mm)	Package
PDD06-0006CQ1	0.002-6	70dB@±3dB	10ns/20ns	7	20	3.00×3.00	QFN
PDD07-0223CQ1	2-23	50dB@±3dB	10ns/20ns	10	20	3.00×3.00	LGA
PDD05-0240CQ1	2-40	65dB@±3dB	10ns/20ns	10	18	3.00×3.00	LGA

LDMOS Transistor

DC-1500MHz

Part NO.	Freq_Min (MHz)	Freq_Max (MHz)	Gp (dB)	P-1 (W)	Eff@ P1dB	Mod	VDD (V)	Package
PRF5001305R	HF	2700	22	5	60%	CW	28	
PRF5001810	HF	2000	18	13	50%	CW	28	
PRF30902547	HF	1500	16	31	50%	CW	28	
PRF5001850	HF	1500	18	90	60%	CW	28	
PRF50018140	HF	1000	18	140	60%	CW	28	
PRF50017200	HF	1000	17	200	60%	CW	28	
PRF50020250	HF	1000	21	190	61.30%	CW	28	
PRF500201K	HF	512	20	1023(Psat)	70.30%	CW	52	
PRF500181K3	HF	512	18	1350(Psat)	79%	CW	50	
PRF500202K	HF	512	20.5	2300(Psat)	82%	Pulse	50	

LDMOS Transistor

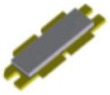
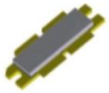
General Use

Part NO.	Freq_Min (MHz)	Freq_Max (MHz)	Gp (dB)	P-1 (W)	Eff@ P1dB	Mod	VDD (V)	Package
PRF12161660	700	1500	16	71	50%	CW	28	
PRF07271815	700	2700	19	16	56%	CW	28	
PRF07272030	700	2700	19	30	59%	CW	28	
PRF161512	700	2200	15	12	63%	CW	12	
PRF161546	700	2000	15	40	52%	CW	28	

LDMOS Transistor

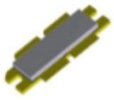
L-band

Part NO.	Freq_Min (MHz)	Freq_Max (MHz)	Gp (dB)	P-1 (W)	Eff@ P1dB	Mod	VDD (V)	Package
PRF13171880	1300	1750	20	75.8	54.50%	Pulse	28	
PRF131719180	1300	1700	19.6	173.7	55%	Pulse	28	
PRF131715230	1300	1700	15.9	214	62.10%	CW	28	
PRF091216100	960	1215	16	100	60%	Pulse	50	

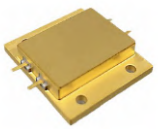
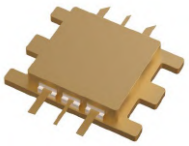
PRF091220150	960	1215	20	220	50%	Pulse	50	
PRF091218250	960	1215	18	250	55%	Pulse	50	
PRF091215400	960	1215	15.9	407	49.60%	Pulse	50	
PRF091213700	960	1215	15.7	718	49%	Pulse	50	
PRF091215750	960	1215	15	750	51%	Pulse	50	
PRF0912131K	900	1300	13	1200(Psat)	50%	Pulse	50	

GaN Transistor

Part NO.	Freq_Min (MHz)	Freq_Max (MHz)	Gp (dB)	P-3 (W)	Eff@ P-3	Mod	VDD (V)	Package
PRF602015T	30	6000	19	18(P-1)	70%	CW	28	
PRF601425T	30	6000	14	25(P-1)	70%	CW	28	
PRF10401060T	1000	4000	16	50	70%	CW	28	
PRF103016120T	1000	3000	16	120	65%	CW	28	
PRF121615170T	500	4000	15	185	67%	CW	48	
PRF3020180T	30	2000	18	180	65%	Pulse	28	

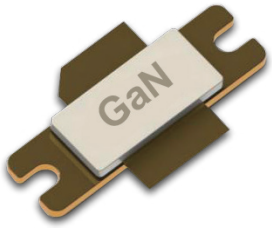
PRF2017600T	30	2000	17	320	65%	Pulse	28	
PRF0514161KT	500	1400	17	1200	70%	Pulse	50	
PRF0912161K5T	960	1215	16.1	1500	68%	Pulse	50	
PRF40601630T	1000	6000	14.2	35	54.80%	CW	28	
PRF40601650T	4000	6000	15	55	54.30%	CW	28	
PRF305010100T	3000	5000	10	100	51.00%	CW	28	
PRF506010100T	5000	6000	10	100	53.00%	CW	28	
PRF506010120T	5000	6000	10	120	52.00%	CW	28	

Full-match PA

Part NO.	Freq_Min (MHz)	Freq_Max (MHz)	Gp (dB)	P-3 (W)	Eff@ P-3	Mod	VDD (V)	Package
PRM06601030M	600	6000	10	30	42%-58%	CW	28	
PRM07620880M	700	6200	8	80	39%-63%	CW	28	

GaN on SiC transistors

GaN on SiC technology can provide broad bandwidth, high essiciency and high-power performance.



P/N	Die Type	Freq. Band (GHz)	Peak Power (W)	Gain (dB)	Efficiency (%)	Test Freq.	Package
ALGH60S015CE(S)	GaN on SiC	DC-6.0	15	>16	>65	@2.0GHz	ACC0906
ALGH60S025CE(S)	GaN on SiC	DC-6.0	25	>16	>65	@2.0GHz	ACC0906
ALGH42S040CE(S)	GaN on SiC	DC-4.2	40	>16	>65	@2.0GHz	ACC0906
ALGH42S090CE(S)	GaN on SiC	DC-4.2	90	>16	>65	@2.0GHz	ACC0906
ALGH42S110CE(S)	GaN on SiC	DC-4.2	110	>16	>65	@2.0GHz	ACC0906
ALGH30S140CE(S)	GaN on SiC	DC-3.0	140	>16	>65	@2.0GHz	ACC0906
ALGH58S012CE(S)	GaN on SiC	5.0-6.0	12	>12	>65	@5.8GHz	ACC0906
ALGH58S030CE(S)	GaN on SiC	5.0-6.0	30	>12	>65	@5.8GHz	ACC0906
ALGH58S050CE(S)	GaN on SiC	5.0-6.0	50	>12	>65	@5.8GHz	ACC0906
ALGH60S025CE(S)	GaN on SiC	DC-6.0	25	>12	>65	@4.0GHz	ACC0906

GainBlock

Part NO.	Freq Range (MHz)	Gain@ 850MHz (dB)	Gain@ 1950MHz (dB)	NF (dB)	P1dB (dBm)	OIP3 (dBm)	Vcc (V)	ICQ (mA)	Package
PG602020	50~4000	23	18	4.5	20	33	5	70	SOT-89
PG801820W	10~8000	18	17	5	20	34	5	60	DFN2*2
PG802020W	10~8000	19	18.5	5	21	35.8	5	75	DFN2*2
PG401820	50~4000	19.5	15.3	7.8	20.2	33.5	5	85	DFN2*2
PG403316W	50~4000	32	32.5	4.5	15.5	30	5	20	DFN2*2
PG401530TL	30~4000	17	15	5	30	43	5	200	DFN2*2
PG401530VB	30~2700	16.7	14	5.2	30.5	43.2	5	150	SOT-89
PG602020W	100~6000	17.6	17.1	5	20	33	5/3.3	89/15	SOT-89

GaAs HBT PA MMIC

Part NO.	Freq Min (MHz)	Freq Max (MHz)	Gain (dB)	P1dB (dBm)	Eff@ P1dB /EVM	Vcc (V)	ICQ (mA)	Package
PRF3236W	300	1000	32	36	46%	5	280	QFN-4x4-16L
PRF2233W	700	2700	23	34.5	48%	5	260	QFN-4x4-16L
PRF243433	1800	2700	34	33	40%	5	200	QFN-4x4-16L
PRF552228	4200	6000	22	28	40%	5	240	QFN-4x4-16L
PRF553030	5000	6000	28	30	43%	5	200	QFN-4x4-16L
PRF163137	1200	1800	31	36	45%	5	50	QFN-4x4-16L
PRF163038	1000	1800	30	38.5	44%	5	100	QFN-5x5-20L
PRF3035W	1800	2800	30	35	2.0%@28dBm	5	200	QFN-4x4-16L
PRF242034	1800	2800	24	34	3.0%@27dBm	5	300	QFN-4x4-16L
PRF602528	5400	6500	25	30	3.0%@22dBm	5	350	QFN-4x4-16L
PRF352830	1800	3800	29	30	--	5	120	QFN-4x4-16L
PRF352833	3200	3800	28	33	-37dBc @26dBm	5	270	QFN-4x4-16L

Hybird MMIC PA

Part NO.	Freq Min (MHz)	Freq Max (MHz)	Gp (dB)	Psat (dBm)	Eff@ Psat	Vcc (V)	ICQ (mA)	Package
PRF503833W	100	5000	32	33	30%	5&28	50@28V	QFN-4x4-16L
PRF10183340	1000	2000	33	40	40%	5&12	100@12V	QFN-5x5-20L

VCO mmic

Part NO.	Freq Min (MHz)	Freq Max (MHz)	Pout(dbm)	Phase Noise(dBc)		Vcc (V)	ICQ (mA)	Package
				@10KHz	@100KHz			
PV043008	400	3000	5	<-80	<-105	2.8-3.3	20@3.3V	DFN2*2
PV257208	2300	7200	8	<-75	<-105	2.8-7.2	36@7.2V	DFN2*2

LNA transistor

Part NO.	Freq Min (MHz)	Freq Max (GHz)	Gain (dB)	P-1 (dBm)	NF (dB)	VDS (V)	IDS (mA)	Test Frequency (GHz)	Chip Size (um)
PL001810T	DC	24	12	18	0.4	2	15	12	315*460
PL001810	DC	18	12	18	0.5	2	15	12	DFN2*2

Mixer diode

Part NO.	RF		IF		LO Power (dBm)	Turn-On Voltage(V)	Package
	Freq_Min (MHz)	Freq_Max (GHz)	Freq_Min (MHz)	Freq_Max (GHz)			
PX18	DC	6	DC	6	15	1.4	DFN2*2

Detector diode

Part NO.	RF		TYPE	Turn-On Voltage(V) No Bias	Turn-On Voltage(V) With Bias	Package
	Freq_Min (MHz)	Freq_Max (GHz)				
PX14	DC	8	GaAs Schottky Diodes	1.4	1.4-VBias	DFN2*2

SPDT switch

Part NO.	Frequency (MHz)	Insertion Loss(dB)	Isolation (dB)	S11 (dB)	P-1 (dBm)	Voltage (V)	Package
PS36	100~4000	0.5	25	-23	36	2.5~5	DFN2*2

Mixer Chip

Passive IQ Mixer Chip

Model \ Index	RF Frequency Range (GHz)	Local Oscillator Frequency Range (GHz)	IF Frequency Range (GHz)	LO driving power (dBm)	Frequency Conversion Insertion Loss (dB)	LO-RF Isolation (dB)	Input IP3 (dBm)	Image Rejection Ratio (dB)	Input P1dB (dBm)	Chip/Package Size
RFM211(New)	8～16	8～16	DC～3.5	15～21	9	45	19	24	15	Die
RFM211SP4(New)	8～14.5	8～14.5	DC～3.5	15～21	10	45	19	24	15	4*4 QFN-24L
RFM212(New)	15～24	15～24	DC～3.5	15～21	10.5	48	20	16	16	Die

Passive Mixer Chip

Model \ Index	RF/LO Frequency Range (GHz)	MF Frequency Range (GHz)	LO Driving Power (dBm	Frequency Conversion Insertion Loss (dB)	LO-RF Isolation (dB)	LO-IF Isolation (dB)	RF-IF Isolation (dB)	Input P1dB (dB)	Input IP3 (dBm)	Chip/Package Size
RFM221(New)	3～11	DC～4.5	13～21	9.5	48	45	24	16	26	Die
RFM221SP3B(New)	3～10	DC～4	13～21	9	47	42	26	17.5	26	3*3 QFN-12L
RFM220(New)	6～21.5	DC～4	13～19	9.5	43	40	15	13	23	Die
RFM086	3～9	DC～3	13～19	7	48	32	13	12	25	Die
RFM086P8	2.5～6	DC～2	13～19	8.5	40	30	25	12	20.5	eSOP-8L
RFM086SP3B	2.5～8	DC～3	13～19	8.5	48	25	18	12	25	3*3 QFN-12L
RFM086SP4	2.5～8	DC～3	13～19	8.5	45	30	18	12	23	4*4 QFN-24L
RFM087	3～10	DC～4.5	13～19	8.5	42	30	30	13	22	Die
RFM087SP3B	3～9	DC～4.5	13～19	8.5	55	38	20	15	23	3*3 QFN-12L
RFM088	6～15	DC～6	13～19	7	42	28	18	15	26	Die
RFM088SP3B	6～15	DC～6	13～19	9	40	26	17	15	26	3*3 QFN-12L
RFM089	9～21	DC～8	13～19	7.5	42	33	24	15	26	Die
RFM089SP3B	9～21	DC～8	13～19	8.5	40	33	24	15	27	3*3 QFN-12L
RFM090	5.5～10	DC～3.5	13～19	7.5	42	24	18	12	25	Die
RFM090SP3B	5.5～10	DC～3.5	13～19	7.5	42	24	18	12	25	3*3 QFN-12L
RFM091	14～30	DC～14	13～19	9	40	35	28	15	26	Die

Index / Model	RF/LO Frequency Range (GHz)	MF Frequency Range (GHz)	LO Driving Power (dBm	Frequency Conversion Insertion Loss (dB)	LO-RF Isolation (dB)	LO-IF Isolation (dB)	RF-IF Isolation (dB)	Input P1dB (dB)	Input IP3 (dBm)	Chip/Package Size
RFM091SP3B	14～26	DC～12	13～19	9	38	33	25	15	26	3*3 QFN-12L
RFM139	14～30	DC～16	11～17	8	35	32	25	12	22	Die
RFM139SP3B	14～30	DC～16	11～17	8	35	32	25	12	22	3*3 QFN-12L
RFM8002P8	2～7	DC～2	13～19	8.5	58	40	23	12	20.5	eSOP-8L
RFM8002SP3B	1.8～6	DC～2	13～19	8.5	55	35	25	12	20.5	3*3 QFN-12L
RFM8003SP3B	4～9.5	DC～4.5	13～19	8.5	55	40	30	13	23	3*3 QFN-12L
RFM8004SP3B	6～18	DC～6	13～19	9	45	35	22	12	24	3*3 QFN-12L
RFM8005SP3B	3.5～15	DC～3	13～19	9	38	35	15	13	23	3*3 QFN-12L

LO Drive Mixer Chip

Index / Model	RF/LO Frequency Range (GHz)	MF Frequency Range (GHz)	LO driving power (dBm)	Loss (dB)	LO-RF Isolation (dB)	LO-IF Isolation (dB)	Input P1dB (dB)	Input IP (dBm)	Chip/Package Size
RFM8008SP4	2.5～7	DC～3	0～8	9	40	35	20	28	4*4 QFN-24L
RFM8009SP4B	1.8～7	DC～3	0～8	8.5	34	25	12	21	4*4 QFN-16L
RFM8010SP4B	2.5～8	DC～3	0～8	8	34	27	12	21	4*4 QFN-16L

LO drive IF amplifier mixer chip

Index / Model	RF/LO Frequency Range (GHz)	MF Frequency Range (GHz)	LO driving power (dBm)	Conversion Gain (dB)	LO-RF Isolation (dB)	LO-IF Isolation (dB)	Input P1dB (dB)	Input IP3 (dBm)	Chip/Package Size
RFM210(New)	2～6	0.27～2	0～6	10	37	35	7	16	Die

1.5 Active Mixer Chip

Index / Model	Input Frequency Range (GHz)	Local Oscillator Frequency Range (GHz)	Input Frequency Range (GHz)	Conversion Gain (dB)	Noise Figure (dB)	Input VSWR (dB)	Output VSWR (dB)	Input IP3 (dBm)	Chip/Package Size
RFM195SP2C(New)	LF～7	LF～9	DC～7	5	13.5	13	16	18	2*2 QNF-10L

Down converter chip

IQ Down converter Chip

Index / Model	RF Frequency Range (GHz)	Local Oscillator Frequency Range (GHz)	MF Frequency Range (GHz)	LO Driving Power (dBm)	Conversion Gain (dB)	LO-RF Isolation (dB)	Noise Figure (dB)	Image Rejection (dBc)	Output 1dB Compression Point (dBm)	Chip/Package Size
RFDC263(New)	17～22.5	8.5～11.75	DC～3.5	11～17	15	-60	2.5	25	-13	Die
RFDC264SP4(New)	17.3～24	7～12.6	DC～4.2	2～6	16	-45	2.5	27.5	-9.5	4*4 QFN-24L
RFDC135SP4	17.5～21.5	7.25～12.5	DC～3.5	2～8	15	-45	2.3	23	-8	4*4 QFN-24L
RFDC136SP4	21～24	8.4～13.5	DC～3.5	2～8	14.5	-50	2.5	24	-8.5	4*4 QFN-24L
RFDC137SP4	21～27	8.3～15	DC～3.5	2～8	12	-45	2.3	18	-8	4*4 QFN-24L
RFDC138SP4	21～30	9～14	DC～3.5	2～8	12	-45	2.5	18	-8	4*4 QFN-24L

Power Divider Chip

1/2 Power divider

Index / Model	Frequency Range (GHz)	Insertion Loss (dB)	Max Input Power (W)	Input /Output VSWR (dB)	Amplitude Imbalance (dB)	Phase Imbalance (°	Isolation (dB)	Chip/Package Size
RFPS121SP4	2～25	0.8～2.4	3	17	<0.3	<5	21@12.5GHz	4*4 QFN-24L
RFPS123SP4	1.8～12.5	0.8～1.8	2.5	17	<0.5	<5	25@7.5GHz	4*4 QFN-24L
RFPS202(New)	0.5～2	1	2	14.8	0.1	0.7	18	Die
RFPS202SP4(New)	0.5～2.5	0.8	2	18	0.1	1	18	4*4 QFN-24L

90° Bridge chip

Index / Model	Frequency Range (GHz)	Insertion Loss (dB)	Coupling Loss (dB)	Isolation (dB)	Phase difference (dB)	Coupling Flatness (dB)	Input VSWR (dB)	Output VSWR (dB)	Coupling VSWR (dB)	Chip/Package Size
RFPS203(New)	3～20	4.5	4.3	20	90±3	±3.5	19	21	20	Die
RFPS203SP4(New)	3～19	4.2	4.5	20	90±5	±2	23	21	20	4*4 QFN-24L

Attenuator Chip

CNC attenuator chip

Index / Model	Frequency Range (GHz)	Bit (bit)	Insertion Los (dB)	Attenuation Accuracy (dB)	Attenuation Range (dB)	Return Los (dB)	Working Voltage (V)	Chip/Package Size
RFAT218(New)	0.1～15	6	5.3 *Switching time<15ns	±（0.3+5%） of At-ten.Setting	31.5	13	3～5	Die
RFAT043(New)	DC～3	6	1.4	±0.2+1% of Atten.Set Max	47	15	-5	Die
RFAT045(New)	DC～5	1	0.88	-0.5	20	28	-5	Die
RFAT047(New)	DC～3	6	1.5	±0.2+1% of Atten.Setting Max	31.5	15	-5	Die
RFAT191P10(New)	0.5～3.8	5	1.02	±（0.25+3% of At-ten.Setting）Max	15.5	20	3.3～5	eMSOP10L
RFAT034	DC～6	1	0.7	-（0.2+10% of At-ten.Setting）Max	31	13	-5	Die
RFAT035	DC～40	1	0.8dB@DC～15GHz 1.1dB@15GHz～20GHz 1.3dB@20GHz～40GHz	-（0.2+10% of At-ten.Setting）Max	10	13	-5	Die
RFAT036	DC～40	2	1.6dB@DC～15GHz 2.1dB@15GHz～20GHz 2.4dB@20GHz～40GHz	-（0.2+10% of At-ten.Setting）Max	20	13	-5	Die
RFAT038	DC～40	3	3.0dB@DC～20GHz 3.4 dB@20GHz～30GHz 3.5 dB@30GHz～40GHz	-（0.2+10% of At-ten.Setting）Max	30	13	-5	Die
RFAT040	DC～40	4	1.6dB@DC～10GHz 3.0dB@10GHz～30GHz 3.6dB@30GHz～40GHz	-（0.2+4% of At-ten.Setting）Max	15	15	-5	Die
RFAT042	DC～40	5	1.8dB@DC～10GHz 2.6dB@10GHz～30GHz 3.2dB@30GHz～40GHz	-（0.2+6% of At-ten.Setting）Max	15.5	15	-5	Die
RFAT044(New)	DC～40	5	4.0dB@DC～20GHz 5.0dB@20GHz～30GHz 5.6dB@30GHz～40GHz	-（0.2+8% of At-ten.Setting）Max	31	15	-5	Die
RFAT044SP4(New)	DC～35	5	3.5dB@DC～20GHz 5.0dB@20GHz～32GHz 7.0dB@32GHz～35GHz	2.3	31	12	-5	4*4 QFN-24L

Index / Model	Frequency Range (GHz)	Bit (bit)	Insertion Loss (dB)	Attenuation Accuracy (dB)	Attenuation Range (dB)	Return Loss (dB)	Working Voltage (V)	Chip/Package Size
RFAT046	DC～13	6	2.4dB@DC～4GHz 3.0dB@4GHz～8GHz 4.0dB@8GHz～13GHz	-（0.2+10% of At-ten.Setting）Max	31.5	12	-5	Die
RFAT046SP3	DC～15	6	2.5dB@DC～8.5GHz 3.2dB@8.5GHz～15GHz	2.3	31.5	15	-5	3*3 QFN-16L
RFAT048	DC～40	3	0.4dB@DC～20GHz 0.6 dB@20GHz～30GHz 0.7 dB@30GHz～40GHz	-（0.2+15% of At-ten.Setting）Max	0.875	17	-5	Die
RFAT081SP3	0.1～6	1	0.45dB@0.1GHz～2GHz 0.5dB@2GHz～4GHz 0.8dB@4GHz～6GHz	1dB@0.1GHz～1GHz 0.5dB@1GHz～5GHz 2dB@5GHz～6GHz	32.5	15	3.3	3*3 QFN-16L
RFAT082SP4	0.1～8	7	0.5dB@0.1～2GHz 0.9dB@2GHz～4GHz 1.4dB@4GHz～6GHz 1.7dB@6GHz～8GHz	1.6	31.75	14	3.3	4*4 QFN-24L
RFAT114SP4	0.1～6	7	1.4dB@0.1～2GHz 1.8dB@2GHz～4GHz 2.0dB@4GHz～6GHz	-0.3～2.0	31.75	18	3～5.3	4*4 QFN-24L
RFAT116ASP5	DC～13	7	0.7dB@10KHz～10MHz 1.4dB@10MHz～8GHz 2.0dB@8GHz～13GHz	±（0.6+6% of attenuation setting）	31.75	15	3～5.3	5*5 QFN-32L

Fixed attenuator chip

Index / Model	Frequency Range (GHz)	Attenuation (dB)	Power Capacity (W)	Attenuation Tolerance (dB)	Return Loss (dB)	Chip/Package Size
RFAT151	DC～40	1	2.5	±0.3	21	Die
RFAT152	DC～40	2	2.5	±0.3	21	Die
RFAT153	DC～40	3	2.5	±0.3	21	Die
RFAT154	DC～40	4	2.5	±0.3	21	Die
RFAT155	DC～40	5	2.5	±0.2@0～25GHz ±0.4@25～40GHz	21	Die
RFAT156	DC～40	6	2.5	±0.2@0～25GHz ±0.4@25～40GHz	21	Die
RFAT157	DC～40	7	2.5	±0.3@0～25GHz ±0.4@25～40GHz	21	Die
RFAT158	DC～40	8	2.5	±0.2@0～25GHz ±0.6@25～40GHz	21	Die
RFAT150	DC～40	10	2.5	±0.2@0～25GHz ±0.6@25～40GHz	21	Die
RFAT151SP2	DC～25	1	2.5	±0.25	18	2*2 DFN-6L
RFAT152SP2	DC～25	2	2.5	±0.25	18	2*2 DFN-6L
RFAT153SP2	DC～25	3	2.5	±0.25	18	2*2 DFN-6L
RFAT154SP2	DC～25	4	2.5	±0.30	18	2*2 DFN-6L
RFAT155SP2	DC～25	5	2.5	±0.30	18	2*2 DFN-6L
RFAT156SP2	DC～25	6	2.5	±0.35	18	2*2 DFN-6L
RFAT157SP2	DC～25	7	2.5	±0.35	18	2*2 DFN-6L
RFAT158SP2	DC～25	8	2.5	±0.35	18	2*2 DFN-6L
RFAT150SP2	DC～25	10	2.5	±0.35	18	2*2 DFN-6L

Amplifier Chip

LNA Chip

Index / Model	Frequency Range (GHz)	Gain (dB)	Saturation power (dBm)	Noise Figure (dB)	P1dB (dBm)	IP3 (dBm)	Working Voltage (V)	Working Current (mA)	Chip/Package Size
RFA178(New)	6～18	24.5	15	1.2	13	22	5	31	Die
RFA179(New)	6～18	25	16	1.2	14.5	25	5	39	Die
RFA249(New)	16～28	26	16	2.1	14	25.5	3	80	Die
RFA249SP4(New)	16～28	25	15.5	2.1	14	25	3	83	4*4 QFN-24L
RFA198SP4(New)	6～26.5	21	11	2.5	9	19	3.5	60	4*4 QFN-24L
RFA172SP2B(New)	0.6～6	21	20	0.6	19.5	37	5	65	2*2 QFN-8L
RFA208(New)	DC～2	18	-	0.9	20.3	35	5	75	Die
RFA208SP2(New)	0.05～1.7	20	21	1	20.5	35	5	67	2*2 DFN-6L
RFA209(New)	0.5～1.8	17.4	-	1.25	17	29	5	37	Die
RFA214(New)	2.5～11	23	18.3	1.6	16.3	31	5	71	Die
RFA215(New)	8～15	20	15.8	1.4	14.5	26.6	5	68	Die
RFA134SP4(New)	17～28	22	-	2.3	15	25	5	79	4*4 QFN-24L
RFA3024(New)	0.01～3	18.5	20.5	1.25	19.5	35	5	75	Die
RFA3024T3(New)	0.01～3	20	18	1.3	20	35	5	75	SOT89
RFA3024SP3(New)	0.01～3	20	20	1.3	19	35	5	67	3*3 QFN-16L
RFA127SP4(New)	15～28	24	16.5	1.9	14.5	25.5	4	86	4*4 QFN-24L
RFA067	1～14	15	20	1.7	18	28	5	55	Die
RFA068	0.01～8	19	21.5	1.4	20	30	5	65	Die
RFA068SP2	0.01～8	19	22.5	1.4	20.5	34	5	65	2*2 QFN-6L
RFA069	0.01～10	16.5	21.5	1.5	19.5	30	5	65	Die
RFA069SP2	0.01～10	15	22	1.4	20	35	5	65	2*2 QFN-6L
RFA070	0.01～10	15	20	2.1	18.5	28	5	65	Die
RFA070SP2	0.01～10	14.5	21	1.8	19	35	5	65	2*2 QFN-6L
RFA071	6～18	18.8	17	1.5	15	28	3.5	70	Die
RFA071SP3	6～18	18	17.5	1.7	15	25	3.5	75	3*3 QFN-16L
RFA072	1～27	16	17	2.5	14	22	5	60	Die
RFA072SP5	1～24	14.2	15	2.5	13	24	5	58	5*5 QFN-32L

Index / Model	Frequency Range (GHz)	Gain (dB)	Saturation power (dBm)	Noise Figure (dB)	P1dB (dBm)	IP3 (dBm)	Working Voltag (V)	Working Current (mA)	Chip/Package Size
RFA073	22～43.5	21	13	2.3	10	22	5	54	Die
RFA074	20～40	20.5	12	2.5	9	20	3	50	Die
RFA075	23～40	18	15	2.5	12	22	3	65	Die
RFA075SP4	22～40	20	15.5	2.7	13	23	3	65	4*4 QFN-24L
RFA076	3～10	14	18	1.7	17	26	5	45	Die
RFA076SP4	3～10	13.5	18.5	1.7	17	33	5	45	4*4 QFN-24L
RFA077	DC～27	16	20	2.7	16	26	7	70	Die
RFA077SP5	DC～24	15	19	2.7	16	26	8	80	5*5 QFN-32L
RFA078SP5	DC～24	15	19	2.7	15	29	7	55	5*5 QFN-32L
RFA079	22～42	10	15	3.2	12	24	5	48	Die
RFA095	3～21	17	17	1.5	15	28	3.5	70	Die
RFA095SP3	3～21	16	16	1.8	13.5	24	3.5	80	3*3 QFN-16L

5.2 Gain Block Amplifier Chip

Index / Model	Frequency Range (GHz)	Gain (dB)	Saturation power (dBm	Noise Figure (dB)	Input VSWR (dB	Output VSWR (dB	P1dB (dBm)	Output IP3 (dBm)	Working Voltage (V)	Working Current (mA)	Chip/Package Size
RFA204(New)	DC～3	22	13.5	3.5	-23	-17	12	24.5	5	33	Die
RFA204SP2(New)	DC～3	22	13.5	3.5	-23	-17	12	24.5	5	33	2*2 DFN-6L
RFA205(New)	DC～6	17	15	3.6	-17	-20	14	28	5	50	Die
RFA205SP2(New)	DC～6	17	15	3.6	-17	-20	14	28	5	50	2*2 DFN-6L
RFA207(New)	DC～12	20	18.5	3.5	-18	-22	18@1GHz	29@1GHz	5	65	Die
RFA207SP2(New)	DC～12	20	18.5	3.5	-18	-22	18@1GHz	29@1GHz	5	65	2*2 DFN-6L
RFA207T3(New)	DC～10	20	19	3.5	-18	-22	18@1GHz	29@1GHz	5	65	SOT89
RFA239(New)	DC～8	12	13	4	-16	-17	12.5@1GHz	28@1GHz	5	40	Die
RFA239SP2(New)	DC～8	12	13.5	4	-16	-17	12.5@1GHz	28@1GHz	5	40	2*2 DFN-6L
RFA240(New)	DC～6	16	15	3	-20	-26	14@1GHz	28@1GHz	5	40	Die
RFA240SP2(New)	DC～6	16	15	2.9	-15	-20	14@1GHz	28@1GHz	5	40	2*2 DFN-6L
RFA241(New)	DC～3	20	15	2.5	-19	-22	14@1GHz	26@1GHz	5	35	Die
RFA241SP2(New)	DC～3	19	15	2.5	-17	-20	14@1GHz	26@1GHz	5	35	2*2 DFN-6L
RFA242(New)	DC～4	19	19	3	-20	-22	18@1GHz	30@1GHz	5	65	Die
RFA242SP2(New)	DC～4	18	19	3	-20	-22	18@1GHz	30@1GHz	5	65	2*2 DFN-6L
RFA243(New)	DC～4	21	19	2.9	-19	-21	18@1GHz	30@1GHz	5	64	Die
RFA244(New)	0.05～6	17	16	3.8	-15	-18	15.3@1GHz	28@1GHz	5	42	Die

Index / Model	Frequency Range (GHz)	Gain (dB)	Saturation power (dBm)	Noise Figure (dB)	Input VSWR (dB)	Output VSWR (dB)	P1dB (dBm)	Output IP3 (dBm)	Working Voltage (V)	Working Current (mA)	Chip/Package Size
RFA244T3 (New)	0.055～6	17	16	3.5	-15	-18	15.3@1GHz	28@1GHz	5	42	SOT89
RFA206 (New)	0.05～0.85	21	22	4.2	-17	-20	21	39@150MHz	5	90	Die
RFA206SP2 (New)	0.05～0.85	21	22.5	3.8	-17	-24	21.3	40@150MHz	5	90	2*2 DFN-6L
RFA206T3 (New)	0.05～0.85	21	22.7	3.8	-20	-22	21.7	39@150MHz	5	90	SOT89

Medium Power Amplifier Chip

Index / Model	Frequency Range GHz)	Gain (dB)	Saturation power (dBm)	Noise Figure (dB)	P1dB (dBm)	IP3 (dBm)	Working Voltage (V)	Working Current (mA)	Chip/Package Size
RFA130 (New)	5～18	19	21	6.5	20	30	5	115	Die
RFA130SP3 (New)	5～18	16.5	21	6.5	20	30	5	110	3*3 QFN-16L
RFA129SP3B (New)	18～26	12.8	23.5	7	23	27	5	240	3*3 QFN-12L
RFA175 (New)	5～20	14	22	6	21	32	5	135	Die
RFA175SP3 (New)	5～20	13	22	7	21	32	5	135	3*3 QFN-16L
RFA248 (New)	12～18	23	25	2.5	24.5	35	5	135	Die
RFA248SP3 (New)	12～18	23	25	2.5	24.5	33	5	135	3*3 QFN-16L

Low Phase Noise Amplifier

Index / Model	Frequency Range (GHz)	Single side Band Phase Noise Figure (100KHz Frequency deviation/Pin=10dBm)	Single side Band Phase Noise Figure (1MHz Frequency deviation Pin=10dBm)	Gain (dB)	Saturation power (dBm)	Noise Figure (dB)	Working Voltage (V)	Working Current (mA)	Chip/Package Size
RFA247 (New)	0.01～3	-175	-180	18.5	20.5	1.25	5	75	Die
RFA247T3 (New)	0.01～3	-175	-180	18.5	20.5	1.3	5	75	SOT89
RFA247SP3 (New)	0.01～3	-175	-180	18	20	1.3	5	67	3*3 QFN-16L

Frequency multiplier chip

Frequency Doubler

Index / Model	Input Frequency Range (GHz)	Output Frequency Range (GHz)	Output Power (dBm)	Input Return Loss (dB)	Output Return Loss (dB)	FO Isolation (dB)	Chip/Package Size
RFMU125	7.5～13	15～26	16	-15	-8	20	Die
RFMU126	10.5～15.5	21～31	18	-9	-11	20	Die
RFMU126SP3B	10～15.5	20～31	17	-10	-10	20	3*3 QFN-12L

Digital-to-analog converter chip

10-digit analog converter

Index / Model	Function	Output Range (V)	Resolution (bit)	INL (LSB)	DNL (LSB)	Establishment time of full oscillation (us)	Power Dissipation (mW)	Chip/Package size
RFDA163SP4(New)	Current Mode DAC	0.5～VIN-0.5	10	±1.8	±0.2	0.1（10%～90%）	144	4*4 QFN-24L
RFDA164(New)	High swing voltage type DAC	0.5～16.5	10	±0.5	±0.3	0.2（10%～90%）	38	Die
RFDA164SP4(New)	High swing voltage typ DAC	0.5～16.5	10	±0.5	±0.3	0.2（10%～90%）	38	4*4 QFN-24L
RFDA165(New)	Low Power Voltage Mode DAC	0.5～16.5	10	±0.5	±0.3	5（10%～90%）	9.7	Die
RFDA165SP4(New)	Low Power Voltage Mode DAC	0.5～16.5	10	±0.5	±0.3	5（10%～90%）	9.7	4*4 QFN-24L
RFDA168SP5(New)	10bit Single Channel DAC	0.5～16	10	±0.4	±0.3	0.2（10%～90%）	8	5*5 QFN-32L

SPI

8/16 bit SPI

Index / Model	Function	SPI Speed (MHz)	VOH (V)	VOL (V)	Response time (ns)	Chip/Package Size
RFSP161(New)	8 bit SPI	50	VDD-0.01	0.01	<10	Die
RFSP162(New)	16 bit SPI	50	VDD-0.01	0.01	<10	Die

7 bit SPI

Index / Model	Function	Working Voltage (V)	Working Current (mA)	Input High and low level leakage current (uA)	Parallel port drive load impedance kOhm	tSCK (ns)	tST (ns)	tLESU(ns)	Chip/Package Size
RFSP080	7 bit SPI	3.3	0.4	1	1	70	15	630	Die

SPI Driver

Index / Model	Function	SPI Speed (MHz)	VOH (V)	VOL (V)	Response time (ns)	VDD Voltage Range (V)	VDD Quiescent current (mA)	Chip/Package Size
RFSP159(New)	8bit PIN diver	50	1.8	-2.8	20	3～3.6	0.1	Die
RFSP160(New)	8bit PIN diver	50	1.8	-14.8	40	3～3.6	0.1	Die
RFSP160SP4(New)	8bit PIN diver	50	1.8	-14.8	40	3～3.6	0.1	4*4 QFN-24L
RFSP170SP5(New)	16bit pin diver	50	VDD2-0.4	VEE+0.4	40	VDD=3～3.6 VDD2=1.8～VDD	0.1	5*5 QFN-32L

FET Driver

Index / Model	Function	VDD Voltage Range(V)	VEE Voltage Range(V)	Output Swing(V)	Logical VIH (V)	Logical VIL (V)	Chip/Package Size
RFSP231(New)	-35V FET diver	2.4～3.6	-35～-10	-35～0	2.4(min)	1(max)	Die

Switches

Index / Model	Type	Frequency Range (GHz)	Insertion Loss (dB)	Isolation (dB)	Return Loss (dB)	Bias Voltage (V)	Chip/Package Size
RFS216(New)	SP2T	0.1～15	1.5	50	17	3～5	Die
RFS252(New)	SP2T	DC～20	2.3	50	15	3～5	Die
RFS128SP4(New)	SP5T	DC～8	1.3～2.3	71dB@9KHz～900MHz 59dB@900MHz～2.6GHz 53dB@2.6GHz～8GHz	12	3～5	4*4 QFN-24L
RFS029	SP2T	DC～40	1.4～2	60dB@DC～15GHz 50dB@15GHz～30GHz 38dB@30GHz～40GHz	15	-5	Die
RFS030	SP2T	DC～20	1.1～1.5	56dB@DC～6GHz 37dB@6GHz～11GHz 34dB@11GHz～20GHz	15	-5	Die
RFS032	SP2T	DC～15	1.3～1.8	65dB@DC～10GHz 45dB@10GHz～15GHz	15	-5	Die
RFS032SP3	SP2T	0.1～15	1.5～2.5	50dB@0.1GHz～10GHz 40dB@10GHz～15GHz	17	-4.8	3*3 QFN-16L
RFS037(New)	SP4T	DC～20	2～3.2	50dB@DC～10GHz 55dB@10GHz～20GHz	17	-4.8	Die
RFS037SP4(New)	SP4T	DC～20	2～3.2	50dB@DC～10GHz 55dB@10GHz～20GHz	17	-4.8	4*4 QFN-24L
RFS041	SPST	DC～30	1.3～1.8	60dB@DC～15GHz 50dB@15GHz～20GHz 40dB@20GHz～30GHz	15	-5	Die
RFS084SP3	SP2T	0.1～6	0.65～1	60dB@0.1GHz～2GHz 50dB@2GHz～4GHz 45dB@4GHz～6GHz	20	3.3	3*3 QFN-16L
RFS085	SP4T	0.1～6	0.8～1.9	50dB@0.1GHz～2GHz 40dB@2GHz～4GHz 33dB@4GHz～6GHz	20	3.3	Die
RFS085SP3	SP4T	0.1～6	0.8～1.2	65dB@0.1GHz～2GHz 55dB@2GHz～4GHz 42dB@4GHz～6GHz	20	3.3	3*3 QFN-16L

Index / Model	Type	Frequency Range (GHz)	Insertion Loss (dB)	Isolation (dB)	Return Loss (dB)	Bias Voltage (V)	Chip/Package Size
RFS109SP3	SP4T (Absorption)	DC～6	0.8～1.4	65dB@9KHz～2GHz 55dB@2GHz～4GHz 42dB@4GHz～6GHz	20	3～5.3	3*3 QFN-16L
RFS110ASP3(New)	SP2T	DC～13	0.8	50dB@10KHz～6GHz 38dB@6GHz～8GHz 30dB@8GHz～13GHz	15	3～5.3	3*3 QFN-16L
RFS113SP4	SP4T	DC～6	0.8～1.5	65dB@9KHz～2Hz 50dB@2GHz～4GHz 45dB@4GHz～6GHz	25	3～5.3	4*4 QFN-24L

VCO Chip

Narrowband VCO Chip

Index / Model	Frequency Range (GHz)	Output Power (dBm)	Phase Noise Figure (dBc/@100KHz)	Tuning Voltage (V)	Working Voltage (V)	Working Current (mA)	Harmonic Rejection (dBc)	N Freque ncy dividing output	Frequency drift (MHz/℃)	Chip/Package Size
RFV007SP4	8.5～10	8	-111	0～5	5	129	60@1/2 subharmonic60@3/2 subharmonic	/4	1	4*4 QFN-24L
RFV008SP4	19.5～22.5	5.5	-104	0～5	5	140	30@1/2 subharmonic 35@3/2 subharmonic	/8	2	4*4 QFN-24L
RFV009SP4	23.5～26.8	5	-102	0～5	5	148	30@1/2 subharmonic 40@3/2 subharmonic	/8	2.55	4*4 QFN-24L
RFV092SP4(New)	23.8～24.8	12	-96	2～13	5	125	25@1/2 subharmonic 35@3/2 subharmonic	/8	2	4*4 QFN-24L
RFV093SP5(New)	12.17～13.33	12	-112	2～13	5	190	22@1/2 subharmonic 25@3/2 subharmonic	/2	1	5*5 QFN-32L

Index / Model	Frequency Range (GHz)	Output Power (dBm)	Phase Noise Figure (dBc/@100KHz)	Tuning Voltage (V)	Working Voltage (V)	Working Current (mA)	Harmonic Rejection (dBc)	N Frequency dividing output	Frequency drift (MHz/℃)	Chip/Package Size
RFV094SP5(New)	12.47～13.9	12	-112	2～13	5	190	22@1/2 subharmonic 25@3/2 subharmonic	/2	1	5*5 QFN-32L
RFV096SP5(New)	13.6～14.9	11	-111	2～13	5	190	30@1/2 subharmonic 30@3/2 subharmonic	/2	1	5*5 QFN-32L
RFV097SP5(New)	11.5～12.8	12	-113	2～13	5	190	20@1/2 subharmonic 24@3/2 subharmonic	/2	1	5*5 QFN-32L
RFV099SP5(New)	11.17～12.02	13	-113	2～13	5	190	23@1/2 subharmonic 20@3/2 subharmonic	/2	1	5*5 QFN-32L

Broadband VCO Chip

Index / Model	Frequency Range (GHz)	Output Power (dBm)	Phase Noise Figure (dBc/@100KHz)	Tuning Voltage (V)	Working Voltage (V)	Working Current (mA)	Harmonic Rejection (dBc)	Tuning Mode	N frequency division output	Chip/Package Size
RFV103SP4(New)	0.625～10	5	-106	0～5	5	103	25@2 subharmonic 20@3 subharmonic	Single-end RF output	No	4*4 QFN-24L
RFV021SP4(New)	8～16	12	-92	0～20	5	70	15@2 subharmonic 25@3 subharmonic	Single-segment continuous mode	No	4*4 QFN-24L
RFV023SP4(New)	6～12	13	-98	0～20	5	70	12@2 subharmonic 20@3 subharmonic	Single-segment continuous mode	No	4*4 QFN-24
RFV018SP4	8.5～17	7	-101	0～5	5	136	28@1/2 subharmonic 30@3/2 subharmonic 26@2 subharmonic 40@3 subharmonic	sectional	Yes	4*4 QFN-24L
RFV019SP4	8～16	7	-103	0～5	5	138	28@1/2 subharmonic 30@3/2 subharmonic 26@2 subharmonic 40@3 subharmonic	sectional	Yes	4*4 QFN-24L
RFV100	10～20	8	-101	0～5	5	162	36@1/2 subharmonic 30@3/2 subharmonic 22@2 subharmonic 33@3 subharmonic	sectional	Yes	Die

Index / Model	Frequency Range (GHz)	Output Power (dBm)	Phase Noise Figure (dBc/@100KHz)	Tuning Voltage (V)	Working Voltage (V)	Working Current (mA)	Harmonic Rejection (dBc)	Tuning Mode	N frequency division output	Chip/Package Size
RFV100SP4	10～20	8	-101	0～5	5	162	36@1/2 subharmonic 30@3/2 subharmonic 22@2 subharmonic 33@3 subharmonic	sectional	Yes	4*4 QFN-24L

Frequency Divider Chip

Programmable frequency divider chip

Index / Model	Function	Frequency Range (GHz)	Power Dissipation (mA)	Output Power (dBm)	Phase Noise Figure (dBc/Hz) @100KHz (Fout=3GHz)	Working Voltage (V)	Working Current (mA)	Chip/Package Size
RFD182SP3(New)	1, 2, 4, 8, 16, 32, 64, 128 Programmable frequency division	0.1～24	59mA@N=1, 121mA@N=128	-2～3	-158（N=2）	3.3	121	3*3 QFN-16L
RFD185(New)	1～ 17 Programmable frequency division	DC～10	68mA@N=1, 176mA@N=17	2	-157（N=2）	3.3	176	Die
RFD185SP4(New)	1～ 17 Programmable frequency division	DC～10	68mA@N=1, 176mA@N=17	2	-157（N=2）	3.3	176	4*4 QFN-24L
RFD005SP3	/1,2,4,8 Programmable frequency division	DC～30	32mA@N=1, 45mA@N=8	-2	-154	3.3	45	3*3 QFN-16L
RFD027SP3	/1,2,4,8 Programmable frequency division	DC～21	30mA@N=1, 43mA@N=8	-2	-153	3.3	20	3*3 QFN-16L
RFD001SP3	/1,2,4,8 ×2 Programmable frequency division frequency multiplier	DC～30	33mA@N=1, 47mA@N=8, increase 31mA@×2	-2dBm@ frequency division 3dBm@ frequency multiplier	-154	3.3	47	3*3 QFN-16L

11.2 Fixed frequency divider chip

Index / Model	Function	Frequency Range (GHz)	Power Dissipation (mA)	Output Power (dBm)	Phase Noise Figure (dBc/Hz) @100KHz (Fout=3GHz)	Working Voltage (V)	Working Current (mA)	Chip/Package Size
RFD180(New)	Div 3/Fixed frequency division	0.1～15	65	0～2	-159（Fout=2GHz）	3.3	65	Die

Index / Model	Function	Frequency Range (GHz)	Power Dissipation (mA)	Output Power (dBm)	Phase Noise Figure (dBc/Hz) @100KHz (Fout=3GHz)	Working Voltage (V)	Working Current (mA)	Chip/Package Size
RFD180SP3(New)	Div 3/Fixed frequency division	0.1～15	65	0～2	-159（Fout=2GHz）	3.3	65	3*3 QFN-16L
RFD181(New)	Div 5/Fixed frequency division	0.1～15	72	0～2	-161（Fin=6GHz）	3.3	72	Die
RFD181SP3(New)	Div 5/Fixed frequency division	0.1～15	72	0～2	-161（Fin=6GHz）	3～3.6	73	3*3 QFN-16L
RFD002SP3	Div 2/Fixed frequency division	DC～30	36	-5.1～1.2	-154	3.3	36	3*3 QFN-16L
RFD003SP3	Div 4/Fixed frequency division	DC～30	39	-4.3～1.4	-154	3.3	39	3*3 QFN-16L
RFD004SP3	Div 8/Fixed frequency division	DC～30	40	-4.3～1.2	-153	3.3	40	3*3 QFN-16L

Phase Shifter

Analog Phase Shifter

Index / Model	Function	Frequency Range (GHz)	Phase Range (deg)	Insertion Loss (dB)	Return Loss (dB)	VT Voltage (V)	VT Current (uA)	Sensitivity (deg/V)	Phase shifting Switching time (us)	Chip/Package Size
RFP012SP4	180deg Continuous phase shift	2～7	＞180	2	15	0～14	10	15	0.24	4*4 QFN-24L
RFP013SP4	180deg Continuous phase shift	3～13	＞180	2.5	14	0～13	10	18	0.14	4*4 QFN-24L
RFP014SP4	180deg Continuous phase shift	5～18	＞180	2.5	15	0～13	10	18	0.14	4*4 QFN-24L
RFP015SP4	360deg Continuous phase shift	7～12.5	＞360	4	14	0～14	10	28	0.15	4*4 QFN-24L
RFP016SP4	360deg Continuous phase shift	11～18	＞360	5	14	0～14	10	26.5	0.12	4*4 QFN-24L
RFP017SP4	360deg Continuous phase shift	18～26.5	＞360	4.5	15	0～16	10	24	0.12	4*4 QFN-24L
RFP050SP5	360deg Continuous phase shift	0.95～2	＞360	5	18	0～14	10	28	0.24	5*5 QFN-32L
RFP051SP5	360deg Continuous phase shift	1.8～3.8	＞360	4	20	0～14	10	27	0.24	5*5 QFN-32L
RFP052SP5	360deg Continuous phase shift	3～6	＞360	3.5	15	0～14	10	26	0.25	5*5 QFN-32L
RFP053SP4	180deg Continuous phase shift	6～18	＞180	3	15	0.5～15	10	15	0.14	4*4 QFN-24L
RFP054SP3	360deg Continuous phase shift	24.5～31	＞360	5	13	0～14	10	35	0.12	3*3 QFN-16L
RFP064SP5	360deg Continuous phase shift	2.3～5	＞360	4.5	18	0.3～14	10	29	0.24	5*5 QFN-32L

Digital phase shifter chip

Index / Model	Function	Frequency Range (GHz)	Phase shift Range (deg)	Insertion loss (dB)	VSWR (dB)	Phase shift parasitic amplitude modulation (dB)	RMS attenuation error (dB)	RMS phase shift error (deg)	Phase shift switching time (ns)	Chip/Package Size
RFP279SP4(New)	LSB=5.6°, Phase shift 360°	2.3～3.8	360°	3.2	1.3	±0.6	0.3	3	50	4*4 QFN-24L
RFP281SP4(New)	LSB=5.6°, Phase shift 360°	3.5～6	360°	5.5	1.8	±0.8	0.4	4	50	4*4 QFN-24L

Analog delay line chip

Index / Model	Frequency Range (GHz)	Adjustable delay (ps)	Insertion Loss (dB)	Return Loss Input & Output (dB)	VT Voltage (V)	VT Current (uA)	Delay Sensitivity (ps/V)	Switching time (ns)	Chip/Package Size
RFP066	DC～20	0～25	3	20	0～15	10	2	120	Die

Phase Locked Loop

Phase detector Chip

Index / Model	Phase Comparison Frequency (GHz)	RF Input Frequency (GHz)	RF frequency division	Phase Noise Figure (dBc/Hz) @100KHz	Working Voltage (V)	Working Current (mA)	Chip/Package Size
RFPL186(New)	0.1～1.3	0.1～1.3	1	-155（fpd=100MHz）	3.3	115	Die

Fractional-N PLL

Index / Model	Phase Comparison Frequency (MHz)	RF Input Frequency (GHz)	N frequency division ratio	Noise Figure FOM (Decimal mode) (dBc/Hz)	Working Voltage (V)	Chip / Package Size
RFPL194SP4(New)	16～125@ Decimal mode	1.3～15@ Turn on the front 2 division	32～1048574@ Turn on the front 2 division	-223	3.3	4*4 QFN-24L
	16～150@ integer mode	0.5～5@ Turn off the front 2 division	16～524287@ Turn off the front 2 division			
RFPL219SP4(New)	1～300@ integer mode	0.2～25@ integer mode	20～32768@ integer mode	-232 @ integer mode	3.3	4*4 QFN-24L
	5～150@ Decimal mode	0.2～18@ Decimal mode	24～32768@ Decimal mode	-225 @ Decimal mode		

Integrated VCO PLL

Index / Model	Frequency range (GHz)	Input Power Range (dBm)	Phase detection frequency range (decimal mode) (MHz)	Phase detection frequency range (integer mode) (MHz)	R Divider ratio	Normalized Bottom Noise (Decimal Mode) (dBc/Hz)	Chip/Package Size
RFTR229SP4C(New)	23～25	-25～20	16～125	16～150	1～16383	-220	4*4 QFN-32L

Equalizer Chip

Electric tuning equalizer chip

Index / Model	Frequency Range (GHz)	Insertion Loss (dB	Equilibrium range (dB)	Working Voltage (V)	Working Current (mA)	Input Power (dBm)	Switching time (ns)	Chip/Package Size
RFE055SP3	2～7	0.7	4～9.5	@VT=0～14	@VT=10uA	15	150	3*3 QFN-16L

Multi-Function Transceiver Chip

Multi-Function transceiver chip

Index / Model	function	RF Frequency Range(GHz)	IF Frequency Range (GHz)	LO Frequency Range(GHz)	Output P1dB(dBm)	Gain Control Bit (Bit)	Gain Range(dB)	Noise Figure (dB)	Chip/Package Size
RFTR197(New)	RX	1.5～4.5	0.2～1.2	1～5	13	3	32～40	8	Die
	TX	1.5～3.5	0.2～1.2	1～5	5	3	8～23	-	

Filter Chip

Electric tuning low pass filter

Index / Model	Frequency Range (GHz	Insertion Loss (dB)	Equilibrium (dB)	Working Voltage (V)	Working Current (mA)	P1dB Input Power (dBm)	Switching time (ns)	Chip/Package Size
RFF063SP4	2～4	2～2.8	-	@VT=0～15	@VT=10uA	15	200	4*4 QFN-24L

Electric tuning band pass filter

Index / Model	Frequency Range (GHz)	Insertion Loss (dB)	Equilibrium (dB)	Working Voltage (V)	Working Current (mA)	P1dB Input Power (dBm)	Switching time (ns)	Relative bandwidth (%)	Chip/Package Size
RFF056	2～4	5～7.5	3	@VT=0～15	@VT=10uA	15	350	63	Die
RFF056SP5	2～4	5～7.5	3	@VT=0～15	@VT=10uA	15	350	63	5*5 QFN-32L
RFF057	2～4	3.5～7	3	@VCC=5	30	15	250	13	Die
RFF057SP5	2～4	3.5～7	3	@VCC=5	30	15	250	13	5*5 QFN-32L
RFF058	4～8	3.7～5	1.3	@VT=0～15	@VT=10uA	15	200	43	Die
RFF058SP4	4～8	3.7～5	1.3	@VT=0～15	@VT=10uA	15	200	43	4*4 QFN-24L
RFF059SP4	5～10	4～6	2	@VT=0～15	@VT=10uA	15	160	43	4*4 QFN-24L
RFF060SP5	4～8	5～8	-	@VCC=5	30	15	250	9	5*5 QFN-32L
RFF061	8～16	6.6～9.1	2.5	@VT=0～15	@VT=10uA	15	120	24	Die
RFF061SP3	8～16	6.6～9.1	2.5	@VT=0～15	@VT=10uA	15	120	24	3*3 QFN-16L
RFF062	10.5～20	7～9	2	@VT=0～15	@VT=10uA	15	100	24	Die
RFF062SP3	10.5～20	7～9	2	@VT=0～15	@VT=10uA	15	100	24	3*3 QFN-16L

Detector Chip

Logarithmic detector chip

Index / Model	Frequency Range (GHz)	Input Electrical Level (dBm)	Output Voltage Range(V)	Slope(mV/dB)	logarithm deviation(dB)	power supply voltage(V)	Chip/Package Size
RFPD226SP3 (Researching)	0.05～10	-54～-1@4GHz	1～2@4GHz	-20	±1	3	3*3 QFN-16L

Comb spectrum generator chip

Odd comb spectrum generator chip

Index / Model	5th harmonic output power (fin=100MHz) (dBm)	11th harmonic output power (fin=100MHz) (dBm)	23th harmonic output power (fin=100MHz) (dBm)	5th harmonic output power (fin=1GHz) (dBm)	11th harmonic output power (fin=1GHz) (dBm)	21th harmonic output power (fin=1GHz) (dBm)	Adjacent even wave rejection (dBm)	Phase noise @ frequency deviation 100KHz (dBc/Hz)	Chip/Package Size
RFCG256(New)	-16	-22	-34	-7	-18	-32	20	-180	Die
RFCG256SP3(New)	-16	-22	-34	-7	-18	-32	20	-180	3*3 QFN-16L

Continuous comb spectrum generator chip

Index / Model	5th harmonic output power (fin=100MHz) (dBm)	11th harmonic output power (fin=100MHz) (dBm)	23th harmonic output power (fin=100MHz) (dBm)	5th harmonic output power (fin=1GHz) (dBm)	11th harmonic output power (fin=1GHz) (dBm)	21th harmonic output power (fin=1GHz) (dBm)	Phase noise @frequency deviation 100KHz (dBc/Hz)	Chip/Package Size
RFCG257(New)	-20	-30	-40	-13	-23	-25	-180	Die
RFCG257SP3(New)	-20	-30	-40	-13	-23	-25	-180	3*3 QFN-16L

Appendix Package

1 Plastic Package

Internal Package code	Package type	Package Size (mm)	Lead count	Grounding pad (mm)	Lead pitch(mm)	Lead Width(mm)	Lead Length(mm)	Frame plating	Package thickness (mm)
SP2	DFN	2x2	6L	1.00x1.60	0.65	0.30	0.25	NiPdAu.Std	0.75
SP3	QFN	3x3	16L	1.56x1.56	0.50	0.25	0.40	NiPdAuAg	0.75
SP3B	QFN	3x3	12L	1.15x1.15	0.50	0.22	0.50	NiPdAuAg	0.75
SP4	QFN	4x4	24L	2.56x2.56	0.50	0.25	0.40	NiPdAuAg	0.75
SP4-2	QFN	4x4	24L	2.70x2.70	0.50	0.25	0.40	NiPdAuAg	0.75
SP4B	QFN	4x4	16L	2.70x2.70	0.65	0.30	0.40	NiPdAu.Std	0.75
SP5	QFN	5x5	32L	3.45x3.45	0.50	0.25	0.40	NiPdAuAg	0.75
P8	eSOP	3.9x4.9	8L	2.29x3.81	1.27	0.41	0.64	RT-PPF	1.55
SP4B-2	QFN	4x4	16L	2.40x2.40	0.65	0.30	0.55	NiPdAuAg	0.75
T3	SOT89	4.5x2.5	3L	1.75x2.84	1.50	0.53	1.00	Ag.Spot	1.49
SP2B	DFN	2x2	8L	0.90x1.60	0.50	0.25	0.30	NiPdAu.Std	0.75
SP2C	QFN	2x2	10L	0.50x0.50	0.50	0.25	0.30	NiPdAuAg	0.75
SP5B	QFN	5x5	24L	3.20x3.20	0.65	0.30	0.55	NiPdAuAg	0.75
SP3-5	QFN	3x3	16L	1.70x1.70	0.50	0.25	0.30	NiPdAuAg	0.75
P10	eMSOP	3x3	10L	2.05x1.88	0.50	0.22	0.95	Ag.Spot	0.95
SP6	QFN	6X6	40L	4.50x4.50	0.50	0.25	0.40	NiPdAuAg	0.75
SP4C	QFN	4x4	32L	2.70x2.70	0.40	0.20	0.35	Ag.Spot	0.75

2 Ceramic Package

Internal Package code	Package Type	Package Size (mm)	Lead count	Grounding pad (mm)	Lead pitch(mm)	Lead Width(mm)	Lead Length(mm)	Shell plating	Package thickness (mm)
SC3	CQFN	3X3	16	1.50X1.50	0.50	0.30	0.45	NiAu	0.80
SC4	CQFN	4X4	24	2.50X2.50	0.50	0.30	0.45	NiAu	1.00
SC5	CQFN	5X5	32	3.50X3.50	0.50	0.30	0.45	NiAu	0.80
C8	CSOP	6X7.5	8	3.55X4.55	1.27	0.40	0.75	NiAu	1.60
SC4B	CQFN	4.6X4.6	16	2.60X2.60	0.50	0.30	0.70	NiAu	1.20

The package includes plastic package and ceramic package, this two kinds of packages are complete.

Plastic packaging DFN and QFN (four-sided flat leadless plastic packaging) have excellent electrical and thermal performance, small Size, light weight, it’s suitable for packaging RF chips; SOP (Small Out-Line Package)/SOT (Small Out-Line Package) has many excellent performance, such as high integration, high reliability, small size, light weight and high packaging density.

Ceramic package CQFN and CSOP have excellent electrical, thermal and mechanical performance. It can provide sealing protection for IC chip airtightness and meet the requirements of higher reliability.

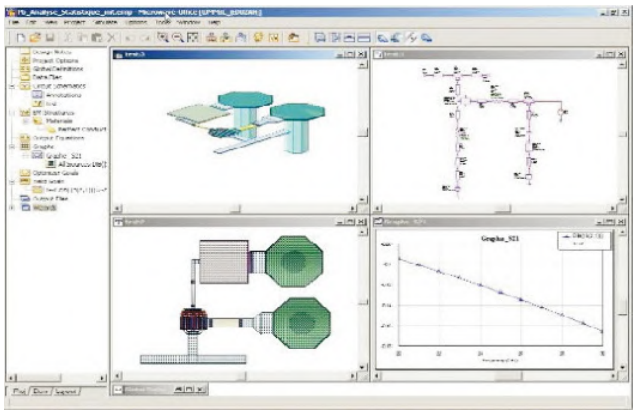
Customized Design Services

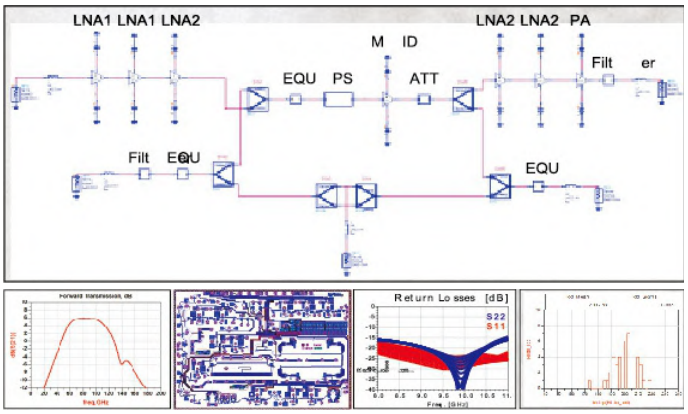
PowerRF has an experienced design team that can design single-chip microwave ovens according to customer specifications and work instructions. Integrated Circuit Design:

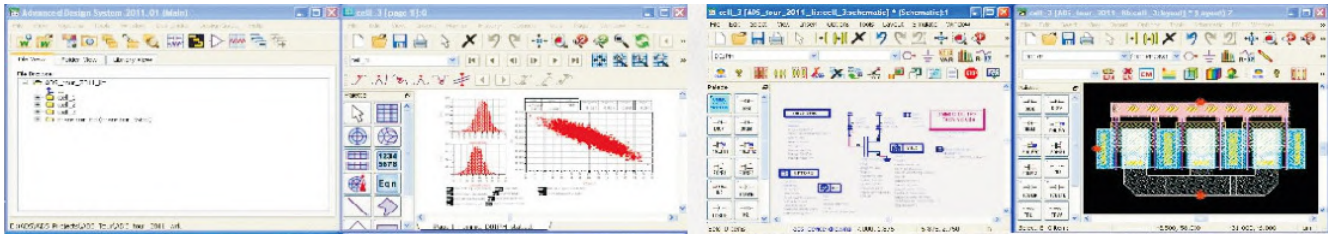
- Multifunctional microwave chip
- Low Noise Amplifier
- Power Amplifier
- Packaged products
- Attenuator
- Phase Shifter
- switch
- Delay
- Frequency Converter
- Passive microwave chips
- Detector
- Power Management Chip
- Internal matching tube

Our design center works closely with various wafer manufacturers to obtain process line support, thus ensuring product quality.

Yield and reliability.







Back-end Semiconductor Services

PowerRF also provides post-process services such as chip cutting, chip selection, and visual inspection to deliver chips that meet product standards to customers. All products are inspected by professional inspectors in accordance with relevant industry quality standards.

PowerRF has the back-end processing capabilities, including: dicing, gold wire bonding, eutectic welding, wafer cleaning, etc.; at the same time, PowerRF can also verify the stability and reliability of its products, including: high and low temperature testing, aging testing, etc.

Chip selection/visual inspection capabilities

Main Equipment

- High and low temperature probe station
- Vector Network Analyzer
- Metallographic microscope
- Other supporting equipment

Purpose--Inspection

Select--piece

test

Reliability and Technical Support

For each MMIC chip, we can conduct relevant reliability verification and inspection according to customer needs to ensure that 100% of the electrical performance and visual inspection are qualified, and each product can meet the customer's usage requirements.

One-stop technical support

We are committed to meeting every customer's needs and providing practical solutions and support for free! Facing a problem? We work Engineer guarantees:

- Respond to customer requests within 2 hours
- Completely handle customer complaints within 4 hours
- Complete demand matching and communication within 8 hours
- Provide design or technical application information and assistance within 24 hours
- Resolve customer complaints within 72 hours and continue to follow up on the application of each material

Customers Support	Provide consulting services on standard shelf products and process technologies, relevant documents and information, and relevant delivery dates and quotation information to customers around the world.
design Support	We provide process technology PDK, accurate device models, real-time tape-out progress, design training and guidance, as well as DRC review and wafer/chip visual inspection to chip companies that choose our process technology and foundry services.
technology Support	We provide 7x24-hour technical support to customers who are selecting solutions and have already purchased our chips, helping them evaluate the feasibility of solutions and system indicators, and provide comprehensive technical support services for problems and difficulties encountered in key links such as assembly/debugging/batch application.
After-sales Support	Provide after-sales support services for all application customers; this service includes (but is not limited to) installation and debugging fault analysis and resolution, error material tracing and closed loop, joint testing and positioning, failure analysis and failure mechanism stimulation, application quality problem clearing, professional analysis report, etc.