

1. GaN Chip

1.1 GaN Power Amplifier Chip

No.	Product Model	Frequency Range (GHz)	Linear Gain (dB)	Psat (dBm)	Input VSWR	Power Dissipation (V/A)	Efficiency (%)	Working Condition	Chip Dimensions (mm)	Page
1*	AMPA0028S	0.3-3.0	17	40	1.5	28/0.9	40	Pulse	2.6*1.3*0.1	3
2	AMPA0025S	2-6	24	45	1.6	28/3.4	33	Pulse	4.1*3*0.1	6
3	AMPA0010S	2-18	13	39	1.3	28/1.3	25	Pulse	4.55*2.3*0.1	10
4	AMPA0013S	4-8	36	45	1.3	28/2.5	42	Pulse	4.6*3.0*0.1	13
5	AMPA0027S	7-12	33	47.5	2	28/5	40	Pulse	4.1*4.7*0.1	16
6	AMPA0005S	7-13	31	44	1.8	25/3	37	Pulse	4.6*2.25*0.1	20
7	AMPA0019S	7-13	32	45	1.5	28/3.5	40	Pulse	3.5*3.8*0.1	23
8	AMPA0014S	8-12	30	46	1.8	28/3.5	42	Pulse	4.4*3.6*0.1	27
9	AMPA0021S	8-12	30	43	1.6	28/2.5	45	Pulse	4.25*1.9*0.1	31
10	AMPA0022SA	8-12	38	46	2	28/0.4	38	Pulse	4.35*3.2*0.1	34
11	AMPA0022S	8-13	31	45	1.8	27/3.5	42	Pulse	3.7*3.3*0.1	38
12	AMPA0016S	9-14	30	43.5	1.8	28/2.4	33	Pulse	4.05*2.35*0.1	41
13	AMPA0032S	12-18	29	45	1.3	28/3.5	30	Pulse	2.0*2.0*0.1	44
14	AMPA0015S	13.5-18	31	43	1.8	28/2.3	37	Pulse	2.95*2.35*0.1	48

1.2 Power Chip

No.	Product Model	Frequency Range (GHz)	Max. Output Power (W)	Power Supply (V)	Max. Efficiency (%)	Chip Dimensions (mm)	Page
1	AMPT1X01S	1-13	40	28/-2.1	65	2.3*0.8*0.1	52
2	AMPT1X02S	1-13	50	28/-2.1	65	2.8*0.95*0.1	54

1.3 Switch Chip

No.	Product Model	Frequency Range (GHz)	Isolation (dB)	Insertion Loss (dB)	VSWR	Switching Time (ns)	Control Method	Type	Chip Dimensions (mm)	Page
1	AMSW0009S	1-20	30	1.4	1.3	10	0/-40V	SPDT	2.3*0.8*0.1	57

2. GaAs Chip

2.1 GaAs Power Amplifier Chip

No.	Product Model	Frequency Range (GHz)	Linear Gain (dB)	Psat (dBm)	Input VSWR	Power Dissipation (V/A)	Efficiency (%)	Chip Dimensions (mm)	Page
1	AMMA0011S	0.8-6.5	22	19	1.5	5/0.66	-	1.86*1.0*0.1	61
2	AMMA0005S	6-16	24	24	1.8	5/0.13	-	1.47*1.35*0.1	64
3	AMMA0007S	7-13	22.5	22.5	1.5	5/0.12	-	1.35*1.35*0.1	67
4	AMMA0009S	7-13	28	23.5	1.9	5/0.146	-	1.35*1.1*0.1	70
5	AMMA0001S	8-12	20	23	1.6	8/0.11	-	1.5*2.0*0.1	73
6	AMMA0010S	14-18	19	22.8	1.5	8/0.125	-	1.8*0.9*0.1	79
7	AMMA0008S	16-28	16	21	1.7	5/0.088	-	1.15*1.95*0.1	82
8*	AMPA0023S	2-20	13.5	30	1.8	12/0.35	20	2.3*1.4*0.1	85
9	AMPA0002S	8-12	23	41	1.6	8/4	40	3.6*4.0*0.1	88
10	AMPA0003S	8-12	29	34	1.4	5/1.2	45	3.6*2.2*0.1	92
11	AMPA0004S	8-12	28	35.5	1.8	8/1.1	40	2.8*1.5*0.1	96
12	AMPA0011S	9-19	26	35	1.6	8/1.15	38	3.6*1.9*0.1	99
13	AMPA0006S	14-18	24.5	37	1.8	8/1.9	30	3.5*2.4*0.1	102
14	AMPA0009S	13-18	25	33.5	1.9	8/1.04	28	2.5*1.4*0.1	106
15	AMPA0012S	33-37	28	29.5	1.2	5/0.85	22	3.8*1.6*0.1	110
16	AMPA0007S	34-36	28	26	2	5/0.5	16	3.3*2.1*0.1	113

2.2 GaAs Low Noise Amplifier (LNA) Chip

No.	Product Model	Frequency Range (GHz)	Gain (dB)	Noise Figure (dB)	Input/Output VSWR	P-1 (dBm)	Operating Voltage (V)	Operating Current (mA)	Chip Dimensions (mm)	Page
1	AMLA0013S	1-20	16	2.5	1.2/1.3	14	5	64	3.0*1.3*0.1	117
2	AMLA0014S	2-6	28	1	1.6/1.5	12	5	29	2.25*1.3*0.1	120
3	AMLA0016S	2-8	27	0.7	1.4/1.3	11	5	30	2.2*1.15*0.1	123
4	AMLA0009S	6-18	20.5	1.45	1.6/1.6	16	5	75	1.4*1.05*0.1	126
5	AMLA0019S	6-18	21.5	1.5	1.4/1.5	13	5	30	1.6*0.95*0.1	130
6	AMLA0015S	6-20	28	1.8	1.5/1.4	14	5	55	2.0*0.9*0.1	133
7	AMLA0003S	7-12.5	23	1.2	1.6/1.3	6	4.1	16	1.55*1.05*0.1	136
8	AMLA0003SB	7-13	25	1.2	2/1.7	11	4.1	30	1.625*1.15*0.1	139
9	AMLA0001S /SM	7-13	21	1.1	1.3/1.3 1.6/1.6	9/8	4	40	1.9*1.05*0.1	142
10	AMLA0002S	7-13	10	2.3	1.5/1.5	12	4.1	28	1.5*1.1*0.1	145
11	AMLA0003SA	7-13	19	1	1.7/1.4	5	4	15	1.55*1.05*0.1	148
12	AMLA0010S	7-13	25	1.5	1.3/1.3	13	4	32	2.0*1.65*0.1	151
13	AMLA0004S	7-13	20	1.1	1.6/1.4	5	5	16	1.9*1.05*0.1	156
14	AMLA0008S	7-13	8.5	2.2	1.3/1.1	12	4.1	18	1.2*1.0*0.1	159
15	AMLA0012S	12-18	16	3	1.4/1.6	16	5	55	1.25*0.9*0.1	162
16	AMLA0007S	12-20	29	1.5	1.5/1.5	8	5	65	2.25*1.2*0.1	165
17	AMLA0011S	19-25	26	2	1.4/1.7	15.5	5	40	1.875*0.7*0.1	168
18	AMLA0005S	28-40	22	2.2	1.2/1.2	3	5	30	2.25*1.2*0.1	171
19	AMLA0018S	28-40	28	3	1.3/1.5	1	5	40	2.7*1.05*0.1	174

2.3 GaAs Power Divider Chip

No.	Product Model	Frequency Range (GHz)	Type	VSWR	Insertion Loss (dB)	Isolation (dB)	Chip Dimensions (mm)	Page
1	AMDV0001S	2-6	2 Channels	1.3	0.6	22	1.5*1.0*0.1	178
2	AMDV0004S	2-22	2 Channels	1.3	0.9	20	1.98*2.0*0.1	181
3	AMDV0002S	6-18	2 Channels	1.2	0.8	20	1.5*1.0*0.1	184
4	AMDV1X02S	12-18	2 Channels	1.3	0.4	20	0.8*1.0*0.1	187
5	AMDV1X03S	18-26	2 Channels	1.2	0.5	25	1.05*1.2*0.1	190
6	AMDV1X01S	30-40	2 Channels	1.3	0.3	20	1.55*1.35*0.1	193
7*	AMDV0005S	2-18	4 Channels	1.3	2	30	3.85*4.3*0.1	196
8	AMDV2X03S	2.5-6	4 Channels	1.3	1.5	26	2.0*1.25*0.1	199
9	AMDV0003S	6-18	4 Channels	1.4	1.5	22	1.8*1.1*0.1	202
10	AMDV2X01S	12-18	4 Channels	1.4	1.4	30	1.7*1.05*0.1	205
11	AMDV2X02S	18-26	4 Channels	1.4	1.3	25	1.65*1.05*0.1	208

2.4 Multi-function Chip

2.4.1 T/R Amplitude and Phase Multi-function Chip

No	Product Model	Freq. Range (GHz)	R/T Gain (dB)	R/T P-1 (dBm)	Phase Shift/Attn. Bits	Phase Shift RMS (°)	Attn. RMS (dB)	Control	Chip Dimensions (mm)	Remark	Page
1	AMMF0016S	2.7-3	8/20	14/24	6/6	3	0.5	Parallel	4.5*3.5*0.1	Built-in 0.25W driver	212
2*	AMMF0017S	3.7-4.2	8/20	14/24	6/6	3	0.5	Parallel	4.5*3.5*0.1	Built-in 0.25W driver	216
3	AMMF0007S	4.5-6.5	8/8	15/15	6/7	2.5	0.2	Parallel	4.5*2.7*0.1		218
4*	AMMF0018S	6-18	7.5/11	9/8	6/6	6	0.8	Serial	3.4*6.15*0.1		224
5	AMMF0006S /SM	7-13	6/6	11/11	6/6	4.8	0.7	Serial	3.8*4.7*0.1		230
6	AMMF0011S	7-13	13/26	12/24	6/6	2.5	0.3	Parallel	4.5*3.5*0.1	Built-in 0.25W driver	237
7	AMMF0001S	8-12	13/6	12/13	6/6	2	0.4	Parallel	3.8*4.5*0.1		243
8	AMMF0003S / SM	8-12	5/5.5	12/12	6/6	2.5	0.5	Serial	3.8*4.7*0.1		250
9*	AMMF0012S	8-12	4/33	10/31	6/6	5	0.5	Serial	4.0*3.5*0.1	Built-in 1W driver	265
10	AMMF0014S	7-13	-1/4.5	8/10	6/6	4	0.5	Serial	4.2*4.3*0.1	Built-in 2 Bit delayer	270
11	AMMF0005S	14-18	5.5/5.5	10.5/11	6/6	2.5	0.3	Serial	4.5*2.8*0.1		279
12*	AMMF0010S	14-18	5/32	5/33	6/6	3.5	2	Serial	4.05*3.2*0.1	Built-in 1W PA	286
13	AMMF0013S	24-28	8/10	4/5	6/5	3	0.5	Serial	4.2*3.2*0.1		292

2.4.2 Amplitude and Phase Multi-function Chip

No	Product Model	Frequency Range (GHz)	Insertion Loss (dB)	Phase Shift/Attn. Bits	Phase Shift RMS (°)	Attn. RMS (dB)	Control	Channel	Chip Dimensions (mm)	Page
1	AMAP0003S	14-18	15	6/6	4	0.7	Serial	Dual	4.0*4.0*0.1	301
2	AMAP0001S	28-38	20.5	6/5	3	0.5	Serial	Four	6.25*2.5*0.1	308
3	AMAP0002S	32-38	14	6/5	3	0.5	Parallel	Single	3.2*1.19*0.1	314

2.4.3 T/R Multi-function Chip

No.	Product Model	Frequency Range (GHz)	R/T Gain (dB)	R/T P-1 (dBm)	Receiving Noise	R/T Input VSWR	R/T Output VSWR	Chip Dimensions (mm)	Page
1*	AMTR00013S	6-18	19/19.5	13/18	4	1.3/1.3	1.5/1.5	2.0*2.0*0.1	319
2	AMTR0004S	8-12	28/30	8/30	2.6	1.8/1.8	1.8/1.8	2.88*2.5*0.1	323
3*	AMTR0005S	8-12	24/-1.2	8/31	2.7	1.8/1.8	1.8/1.8	1.1*3.5*0.1	325
4*	AMTR0006S	14-18	25/-2	-2/-	2.8	1.8/1.8	1.8/1.8	1.2*3.4*0.1	328
5*	AMTR0007S	24-28	25/19	4/-	3.25	1.8/1.5	1.8/2	2.45*1.8*0.1	330

2.4.4 T/R Two-Way Power Amplifier Chip

No.	Product Model	Frequency Range (GHz)	R/T Gain (dB)	R/T P-1 (dBm)	Receiving Noise	R/T Input VSWR	R/T Output VSWR	Chip Dimensions (mm)	Page
1	AMTR00003S	6-13	9.5/9.5	12/12	4.5	1.8/1.8	1.5/1.5	1.69*1.17*0.1	333
2	AMTR00009S	6-18	21/21	18/18	4.5	1.5/1.5	2/2	2.4*2.0*0.1	336
3	AMTR00008S	8.5-10.5	10.5/3	9/9	3	1.5/1.5	1.5/1.5	2.15*2.25*0.1	339
4*	AMTR00010S	24-29	21/21	17/17	5.2	1.4/1.4	1.4/1.4	2.3*1.8*0.1	343
5	AMTR00002S	33-37	18/17	2.5/15	3.6	1.3/2	1.3/2	3.0*2.5*0.1	346
6	AMTR00012S	33-37	25/28	13/19	3.8	1.5/1.5	1.4/1.4	3.0*2.5*0.1	350
7	AMTR00001S	34-36	26/23	2.5/22	3.5	1.4/1.8	1.4/1.8	4.0*3.0*0.1	354

2.5 Vector Modulation Chip

No.	Product Model	Frequency Range (GHz)	Type	Insertion Loss (dB)	Input VSWR	Control Voltage (V)	Amplitude Modulation Range (dB)	Phase Modulation Range (°)	Channel	Chip Dimensions (mm)	Page
1	AMVM00003S	28-37	Single Balance	12	1.4	-2 ~ 0	-30 ~ 16	360	Four	3.9*2.9*0.1	359
2	AMVM00002S	28-38	Dual Balance	7	1.4	-1.8 ~ 0	-30 ~ 10	360	Single	2.15*1.5*0.1	362
3	AMVM00004SA	33-37	Single Balance	14.5	1.3	-1.5 ~ 0.5	-30 ~ -16	360	Four	3.5*2.1*0.1	365
4	AMVM00001S	33-37	Single Balance	5.5	1.2	-0.8 ~ 0	-29 ~ 13	360	Single	1.5*1.5*0.1	372

2.6 Clipper Chip

No.	Product Model	Frequency Range (GHz)	Insertion Loss (dB)	CW Endurance Power (W)	Input/Output VSWR	Chip Dimensions (mm)	Page
1	AMLM00004S	0-18	0.6	5	1.5/1.5	1.2*0.75*0.1	376
2	AMLM00009S	0.1-4	0.2	25	1.2/1.2	1.8*1.1*0.1	378
3	AMLM00006S	2-6	0.45	25	1.2/1.2	1.82*1.08*0.1	381
4	AMLM00007S	4-8	0.45	25	1.3/1.3	1.82*1.08*0.1	384
5	AMLM00001SA	7-13	0.45	10	1.3/1.3	1.5*0.6*0.1	387
6	AMLM00008S	7-13	0.8	20	1.3/1.3	1.2*2.0*0.1	390
7	AMLM00001S	8-12	0.6	10	1.4/1.4	1.55*0.72*0.1	393
8	AMLM00003S	8-12	0.4	25	1.2/1.2	1.92*1.04*0.1	396
9	AMLM00003SA	8-12	0.6	60	1.5/1.5	1.92*1.04*0.1	399
10	AMLM00002S	13-19	0.5	5	1.4/1.4	1.33*0.57*0.1	401
11	AMLM00010S	22-30	0.6	5	1.3/1.3	1*0.7*0.1	404
12	AMLM00011S	30-40	0.7	2	1.5/1.5	0.98*0.7*0.1	406

2.7 Digital Controlled Phase Shifter Chip

No.	Product Model	Frequency Range (GHz)	Insertion Loss (dB)	Phase Shift Bits	Phase Shift Step (°)	RMS Error (°)	VSWR	Chip Dimensions (mm)	Page
1*	AMPS0007S	2.5-3.5	5.8	6	5.625	2	1.5	3.2*1.4*0.1	410
2*	AMPS0008S	3.7-4.2	5	6	5.625	2	1.5	3.5*1.5*0.1	413
3	AMPS0006S	4.5-6.5	5	6	5.625	3.5	1.3/1.5	2.8*1.2*0.1	416
4	AMPS0003S	6-18	10	7	2.8125	3	1.5	2.8*3.0*0.1	420
5*	AMPS0011S	7-13	8	6	5.625	2	1.5	3.2*1.2*0.1	424
6	AMPS0005S	8-12	9	6	5.625	3	1.7/1.8	3.65*1.37*0.1	427
7	AMPS0002S	12-20	8.2	6	5.625	2	1.3	3.0*1.2*0.1	431
8*	AMPS0009S	24-28	9	6	5.625	2	1.5	2.5*1.2*0.1	434
9*	AMPS0010S	32-38	9	6	5.625	3	1.5	2.3*1.2*0.1	437

2.8 Attenuator Chip

2.8.1 Digital Controlled Attenuator Chip

No.	Product Model	Frequency Range (GHz)	Insertion Loss (dB)	Attenuation Bits	Attenuation Step (dB)	RMS Error (dB)	VSWR	Chip Dimensions (mm)	Page
1	AMAT0003S	0-25	3.5	6	0.5	0.3	1.4	1.69*0.97*0.1	441
2	AMAT0004S	0-20	5	6	0.5	0.6	1.6	2.5*1.5*0.1	445
3	AMAT0005S	0-20	2	1	32	-	1.5	1.05*0.8*0.1	449
4	AMAT0012S	0-20	1	1	32	-	1.2	1.2*1.0*0.1	452
5	AMAT0015S	0-20	1.2	1	10	-	1.3	0.9*0.7*0.1	455
6	AMAT0016S	0-20	1.2	1	20	-	1.3	0.9*0.7*0.1	457
7*	AMAT0014S	0-40	3	5	0.5	0.5	1.4	1.4*1.0*0.1	459

2.8.2 Temperature Compensation Attenuator Chip

No.	Product Model	Frequency Range (GHz)	High Low Temperature Compensation (dB)	Insertion Loss (dB)	VSWR	Chip Dimensions (mm)	Page
1	AMAT0006S	0 - 40	3	3	1.1	1.0*0.75*0.1	463
2	AMAT0006S(L2)	0 - 40	3	5.3dB@10GHz 5.5dB@25GHz	1.2	1.0*0.75*0.1	466

2.8.3 Fixed Attenuator Chip

No.	Product Model	Frequency Range (GHz)	Insertion Loss (dB)	VSWR	Chip Dimensions (mm)	Page
1	AMAT0007S	0 - 40	0.5	1.2	0.7*0.65*0.1	470
2	AMAT0008S	0 - 40	1	1.2	0.7*0.65*0.1	470
3	AMAT0009S	0 - 40	2	1.2	0.7*0.65*0.1	470
4	AMAT0010S	0 - 40	4	1.2	0.7*0.65*0.1	470
5	AMAT0010S(L1)	0 - 40	4	1.2	0.43*0.53*0.1	473
6	AMAT0011S	0 - 40	3	1.1	0.7*0.7*0.1	475

Note, custom-made is available.

2.8.4 Voltage Controlled Attenuator Chip

No.	Product Model	Frequency Range (GHz)	Insertion Loss (dB)	VSWR	Chip Dimensions (mm)	Page
1	AMAT0013S	0.4 - 6	2.5	1.6	1.9*1.5*0.1	478
2	AMAT0017S	6 - 18	3	1.5	1.8*0.8*0.1	481

2.9 Equalizer Chip

No.	Product Model	Frequency Range (GHz)	Equalized Amount (dB)	Insertion Loss (dB)	VSWR	Chip Dimensions (mm)	Page
1	AMEQ1X03S	0.5 - 6	4	0.4	1.2	0.9*0.8*0.1	485
2	AMEQ1X01S	1 - 18	6	1	1.5	1.0*0.75*0.1	488
3	AMEQ1X02S	1 - 12	4	1	1.5	1.0*0.75*0.1	491
4	AMEQ1X05S	6 - 18	5.5	1	1.3	0.85*0.8*0.1	494
5	AMEQ1X04S	8 - 12	3	1	1.5	1.0*0.8*0.1	497
6	AMEQ1X06S	26 - 38	5.5	1.25	1.5	1.0*0.8*0.1	500

2.10 Switch Chip

2.10.1 FET Switch Chip

No.	Product Model	Frequency Range (GHz)	Isolation (dB)	Insertion Loss (dB)	VSWR	Switching Time (ns)	Control Method	Type	Chip Dimensions (mm)	Page
1	AMSW0002S	0 - 20	50	1.7	1.5	30	0/-5V	SP4T	2.0*1.5*0.1	504
2	AMSW0003S	0 - 20	52	1.6	1.2	28	0/-5V	SPDT	1.5*1.5*0.1	508
3	AMSW0004S	0 - 20	55	1.9	1.3	28	0/-5V	SPST	1.5*1.0*0.1	512
4	AMSW0011S	0 - 40	33	1	1.3	35	0/-5V	SPDT	0.875*0.9*0.1	515
5*	AMSW0003SA	1 - 30	50	1.8	1.2	30	TTL	SPDT	1.2*0.9*0.1	518
6*	AMSW0004SA	1 - 20	54	1.3	1.2	30	TTL	SPST	1.5*0.8*0.1	521
7	AMSW0004SB	1 - 20	54	1.3	1.2	30	TTL	SPST	1.5*0.8*0.1	524
8	AMSW0005S	2 - 18	40	1.4	1.2	49	0/-5V	SPST	1.05*1.05*0.1	527
9	AMSW0006S	2 - 18	40	1.7	1.5	48	0/-5V	SPDT	1.3*0.9*0.1	531
10	AMSW0001S	6 - 18	42	2.5	1.3	10	0/-5V	SPST	1.9*1.0*0.1	534

2.10.2 PIN Switch Chip

No.	Product Model	Frequency Range (GHz)	Isolation (dB)	Insertion Loss (dB)	VSWR	Input P-1 (dBm)	Operation Current (mA)	Control Method	Type	Chip Dimensions (mm)	Page
1*	AMSW1X01S	0 - 40	40dB@20GHz	0.4dB@20GHz	1.3	30	10/0	+5/-5V	SPST	1.4*0.66*0.1	538
2	AMSW1X02S	0 - 40	45dB@20GHz	0.6dB@20GHz	1	23	10/30	+5/-5V	SPDT	1.4*0.6*0.1	542
3	AMSW1X03S	0 - 40	40dB@20GHz	1dB@20GHz	1.3	23	10/40	+5/-5V	SP4T	1.6*1.1*0.1	545
4	AMSW1X04S	0 - 35	43dB@20GHz	1.2dB@20GHz	1.3	23	13/47	+5/-5V	SP8T	2.3*1.5*0.1	548
5	AMSW0012S	6 - 18	40	0.6	1.3	24	30/30	+5/-5V	SPDT	1.8*0.97*0.1	551
6	AMSW0007S	8 - 12	40	0.8	1.5	27	40/0	+5/-5V	SPDT	2.3*1.52*0.1	554
7	AMSW0008S	10 - 20	45	0.8	1.5	36	40/0	+5/-5V	SPDT	1.52*1.73*0.1	557
8	AMSW0010S	26 - 32	43	0.8	1.1	27	29/0	+5/-5V	SPDT	1.55*1.46*0.1	560

2.11 Coupler Chip

No.	Product Model	Frequency Range (GHz)	Insertion Loss (dB)	Coupling (dB)	Coupling Flatness (dB)	VSWR	Chip Dimensions (mm)	Page
1	AMCP1X01S	6 - 18	0.4	25	3	1.3	2.0*1.3*0.1	564
2	AMCP1X02S	6 - 18	0.4	20	3	1.3	1.85*1.3*0.1	568
3	AMCP1X03S	6 - 18	0.5	15	3	1.3	1.8*1.3*0.1	572
4	AMCP1X04S	18 - 50	0.3	20	4	1.6	1.5*0.8*0.1	575
5	AMCP1X05S	18 - 50	0.6	15	3	1.6	1.5*0.8*0.1	578

2.12 90° Bridge

No.	Product Model	Frequency Range (GHz)	VSWR	Insertion Loss (dB)	Isolation	Chip Dimensions (mm)	Page
1	AMCP2X01S	6 - 18	1.3	0.9	30	1.75*0.85*0.1	582
2	AMCP2X02S	7 - 13	1.2	0.6	27	1.8*1.0*0.1	585
3	AMCP2X03S	24 - 40	1.3	0.5	20	1.45*0.7*0.1	588

2.13 Filter Chip

No.	Product Model	Pass Band Frequency (GHz)	Pass Band Loss	Stop Band Suppression	VSWR	Chip Dimensions (mm)	Page
1	AMF11X01S	DC - 18	1.8dB@18GHz	27dB@21GHz	1.3	0.9*0.8*0.1	592
2	AMF11X02S	DC - 5	1.4dB@5GHz	23dB@7.7GHz 37dB@8.2GHz	1.4	1.5*0.7*0.1	595
3	AMF13X01S	9.1 - 10.3	6dB@9.1GHz	45dBc@8GHz 45dBc@11.7GHz	1.5	2.2*0.86*0.1	597

2.14 Switch Filter Group

No.	Product Model	Bandwidth Frequency (GHz)	Centre Insertion Loss (dB)	In-Band VSWR	Out-Band Suppression (dBc)	Chip Dimensions (mm)	Page
1	AMFI2X02S	8 - 9 9 - 10 10 - 11 11 - 12	7	1.8	≥ 40	4.05*4.5*0.1	601
2	AMFI0001S	6 - 8 8 - 10 10 - 12 12 - 14 14 - 16 16 - 18	9	1.8	≥ 30	5.5*5.5*0.1	606

2.15 Mixer Chip

No.	Product Model	Radio Frequency (GHz)	IF Bandwidth (GHz)	Conversion Loss (dB)	LO/RF Isolation (dB)	P-1 (dBm)	Chip Dimensions (mm)	Page
1	AMMX0002S	2 - 6	DC - 3	8	40	11	1.8*1.0*0.1	611
2	AMMX0001S	6 - 26	DC - 12	10	30	12	1.37*1.0*0.1	614

2.16 Predicable Distortion Linearization Chip

No.	Product Model	Frequency Range (GHz)	Gain Expansion (dB)	Phase Expansion (°)	Control Voltage (V)	VSWR	Gain Flatness (dB)	Chip Dimensions (mm)	Page
1	AMPD0001S	23.5 - 28.5	0 - 20	-50 ~ 150	0 - 5	1.2	1.5	2.0*1.6*0.1	618

2.17 Resistor Chip

No.	Product Model	Resistance (Ω)	Maximum Current (A)	Standard	Page
1	AMPD1X	25/50/100	0.15/0.5	Q/AT23519-2014	622

2.18 Power Resistor

No.	Product Model	Frequency range (GHz)	Resistance (Ω)	Input Voltage Standing Wave	Max. input power	Chip Dimension (mm)	Page
1	AMPD2X01S	DC - 20	50	1.3	50	1.32*1.72*0.1	626
2	AMPD2X02S	DC - 20	50	1.3	80	1.85*2.25*0.1	626
3	AMPD2X03S	DC - 20	50	1.3	120	2.55*2.95*0.1	626

2.19 Switch Driver Chip

No.	Product Model	Operating Voltage (V)	Input Voltage Level (V)	Output Voltage Level (V)	Quiescent Current (mA)	Chip Dimensions (mm)	Page
1	AMDC0001S	-5	TTL compatible	0 / -4.8	2.9	0.55*0.55*0.1	632

3. Ceramic Circuit

3.1 Amplitude and Phase Modulator

No.	Product Model	Frequency Range (GHz)	Attenuation Range (dB)	Phase Shift Range (°)	VSWR	Chip Dimensions (mm)	Page
1	TY-AP01	DC - 40	0 - 3.5	0 - 80	1.4	1.35*1.0*0.127	636
2	TY-AP02	0.8 - 1.2	0 - 3.5	0 - 35	1.3	1.5*4.0*0.127	641

3.2 Adjustable Attenuator

No.	Product Model	Frequency Range (GHz)	Attenuation Range (dB)	Phase Shift Range (°)	VSWR	Chip Dimensions (mm)	Page
1	TY-AT01	DC - 40	0 - 3.5	0 - 80	1.4	1.35*1.0*0.127	647

3.3 Adjustable Phase Shifter

No.	Product Model	Frequency Range (GHz)	Phase Shift Range (°)	Input VSWR	Output VSWR	Chip Dimensions (mm)	Page
1	TY-PS02	6 - 18	0 - 30	1.3 : 1	1.3 : 1	1.5*1.0*0.127	651

3.4 Fixed Attenuator

No.	Product Model	Frequency Range (GHz)	Attenuation Range (dB)	VSWR	Chip Dimensions (mm)	Page
1	AT1X01S	DC - 40	1	1.25	0.4*0.7*0.254	654
2	AT1X02S	DC - 40	10	1.1	0.8*0.8*0.254	654
3	AT1X03S	DC - 40	20	1.2	1.0*0.75*0.254	654
4	AT1X04S	DC - 40	30	1.1	1.15*0.6*0.254	654

3.5 Filter

No.	Product Model	Frequency Range (GHz)	Centre Insertion Loss (dB)	In-Band VSWR	Stop-Band Suppression	Chip Dimensions (mm)	Page
1	AMFIBP58P5	5 - 8.5	2	1.6	≥ 30dBc @ 2 - 4GHz; ≥ 40dBc @ 10 - 14GHz; ≥ 50dBc @ 14 - 15GHz; ≥ 40dBc @ 15 - 17GHz;	7.95*5.15*0.381	658
2	AMFIBP5P527P84	5.52 - 7.84	4	1.5	≥ 40dBc @ 2.5 - 4GHz; ≥ 41dBc @ 11 - 16GHz;	7.9*4.9*0.254	660
3	AMFIBP618	6 - 18	1.1	1.8	≥ 24dBc @ 4GHz; ≥ 33dBc @ 3GHz;	9.8*5.1*0.254	662
4	AMFIBP811P5	8 - 11.5	1.8	1.8	30dBc @ 2 - 6.5GHz; 40dBc @ 16 - 23GHz;	5.45*3.45*0.254	664
5	AMFIBP1114P5	11 - 14.5	2	1.8	30dBc @ 2 - 9.5GHz; 50dBc @ 20 - 29GHz;	5.95*2.95*0.254	666
6	AMFI11P0415P68	11.04 - 15.68	5	1.6	≥ 38dBc @ 5 - 9GHz; ≥ 32dBc @ 16.5 - 20GHz;	6.1*2.9*0.254	668
7	AMFIBP1418	14 - 18	2	1.8	40dBc @ 5 - 10GHz; 40dBc @ 23 - 26GHz; 40dBc @ 28 - 36GHz	6.95*2.75*0.381	671

3.6 Custom Made Product

4. Packaged Products

4.1 Single Chip QFN

4.1.1 LNA

No.	Product Model	Frequency Range (GHz)	Gain (dB)	Noise Factor (dB)	P ₁ (dBm)	OIP ₃ (dBm)	G _m (mS)	V _{gs}	Operation Voltage / Current (V/mA)	Dimension (mm*mm)	No. of Pin	Page
1	AMLT1X01P	0.01 - 6	18@2 GHz	0.4@2 GHz	19	33	400	0.55	-	3*3	12	675
2	AMLA0009PB	6 - 17	18	2.2	16	-	-	-	-	3*3	12	687
3	AMLA0009P	6 - 18	20	2	15	-	-	-	-	3*3	12	690
4	AMLA0009PA	6 - 18	20	2	15	-	-	-	-	3*3	16	693
5	AMLA0002P	7 - 13	9	2.4	12	-	-	-	4.1/28	3*3	-	695
6	AMLA0003P	7 - 12.5	22	1.3	6	-	-	-	4.1/16	3*3	-	695
7	AMLA0003PA	7 - 13	18	1.1	5	-	-	-	4/15	3*3	-	695

4.1.2 Clipper

No.	Product Model	Frequency Range (GHz)	Input VSWR	Output VSWR	Insertion Loss (dB)	P _{Lim}	Chip Dimensions (mm)	Page
1	AMLM0009P	0 - 4	1.29	0.11	1.2	37	4*4	698

4.1.3 Digital Controlled Phase Shifter

No.	Product Model	Frequency Range (GHz)	Insertion Loss (dB)	Phase Shift Bit (Bit)	Phase Shift Stepping (°)	RMS Error (°)	VSWR	Chip Dimensions (mm)	Page
1	AMPS0006P	4.5 – 6.5	5	6	5.625	2	1.3	4*4	701

4.1.4 Voltage Controlled Attenuator

No.	Product Model	Frequency Range (GHz)	Insertion Loss (dB)	Attenuation	Input/output standing wave	Chip Dimensions (mm)	Page
1	AMAT0013P	0.4 – 6	2.5	2.5 – 30	5.625	4*4	705

4.2 MCM

4.2.1 X Band Receiver Front-end SIP

No.	Product Model	Frequency Range	Linear Gain (dB)	Noise (dB)	VSWE	Current (mA)	Isolation (dB)	Chip Dimensions (mm*mm*mm)	Page
1	X Band Receiver Front-end SIP	X band	31	3.3	1.5	33	55	18.0*7.0*4.0	708

4.2.2 X Band Transmitter Front-end SIP

No.	Product Model	Frequency Range	Output Power (dBm)	Spurious Noise Deterioration (dB)	Stray Noise Deterioration (dB)	Input VSWR	Current (mA)	Chip Dimensions (mm)	Page
1	X Band Transmitter Front-end SIP	X band	23	2.5	2	1.8	230	18.0*7.0*4.0	713

4.2.3 Custom Made Product

Custom made specifications is available.