

THz CHIP LIST 太赫兹芯片系列

——BY CHIP FUNCTION 按芯片功能分类

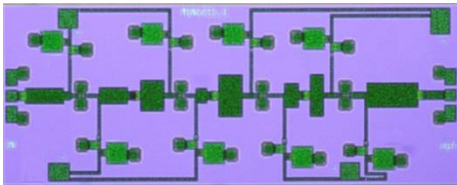
VERSION:20241107FUNCTIONLIST

➤ Key Feature特点:

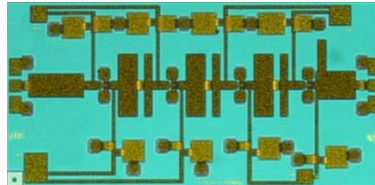
1. Made in China 中国制造
2. Chip or Packaged module available 可提供芯片或者模块
3. Datasheet on request 可提供产品说明书
4. No free samples 没有免费的样品
5. Customized Chip on request 可按需定制芯片

➤ Product Picture产品图

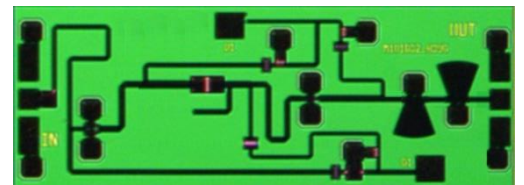
[PA Chip功放芯片](#)



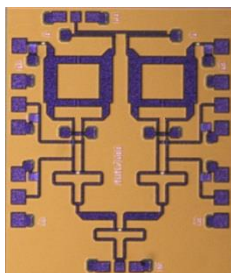
[LNA Chip低噪放](#)



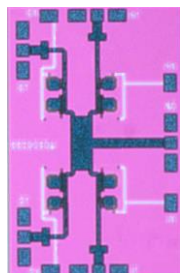
[AMC Chip倍频器芯片](#)



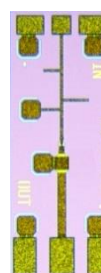
[Mixer Chip混频器芯片](#)



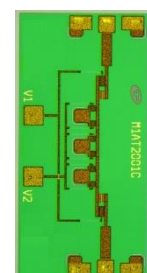
[Switch Chip开关芯片](#)



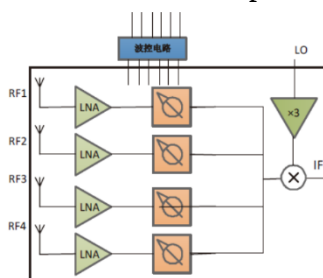
[Detector Chip检波器芯片](#)



[Attenuator Chip衰减器芯片](#)



Multifunctional Chip多功能芯片



1. PA Chip 功率放大器芯片

PN 产品号	Freq(GHz) 工作频率 (GHz)	Specs 技术指标
MKR-075PA	DC-75	1.III/IV Materials 2.Small signal gain : 12dB 3.P _{sat} :NA 4.P _{1dB} :15dBm
MKR-020PA	DC-20	1.III/IV Materials 2.Small signal gain : 12dB 3.P _{sat} :19dBm 4.P _{1dB} :18dBm
MKR-027PA	DC-27	1.III/IV Materials 2.Small signal gain : 16dB 3.P _{sat} :24dBm 4.P _{1dB} :23dBm
NEW MKR-045PA	DC-45	1.III/IV Materials 2.Small signal gain : 16dB 3.P _{sat} :24dBm 4.P _{1dB} :22dBm
NEW MKR-050PA	DC-50	1.III/IV Materials 2.Small signal gain : 12dB 3.P _{sat} :18dBm 4.P _{1dB} :16dBm
NEW MKR-067PA	DC-67	1.III/IV Materials 2.Small signal gain : 12dB 3.P _{sat} :18dBm 4.P _{1dB} :16dBm
MKR-6PA	6-27	1.III/IV Materials 2.Small signal gain : 23dB 3.P _{sat} :21dBm 4.P _{1dB} :19dBm

MKR-15PA	15-43	1.III/IV Materials
		2.Small signal gain : 20dB
		3.P _{sat} :30dBm
		4.P _{1dB} :29.5dBm
MKR-20PA	20-50	1.III/IV Materials
		2.Small signal gain : 26dB
		3.P _{sat} :24dBm
		4.P _{1dB} :23dBm
MKR-30PA	30-75	1.III/IV Materials
		2.Small signal gain : 20dB
		3.P _{sat} :21dBm
		4.P _{1dB} :20dBm
MKR-34PA	34-64	1.III/IV Materials
		2.Small signal gain : 19dB
		3.P _{sat} :27dBm
		4.PAE:17%
MKR-36PA	36-42	1.III/IV Materials
		2.Small signal gain : 22dB
		3.P _{sat} :40dBm@28%PAE
		4.P _{1dB} :38dBm
MKR-37PA	37-43	1.III/IV Materials
		2.Small signal gain : 20dB
		3.P _{sat} :27dBm@25%PAE
		4.Power gain:18dBm
MKR-50PA	50-90	1.III/IV Materials
		2.Small signal gain : 21dB
		3.P _{sat} :20dBm
		4.P _{1dB} :19dBm
MKR-70PA	70-90	1.III/IV Materials
		2.Small signal gain : 23dB
		3.P _{sat} :17dBm
		4.P _{1dB} :16dBm
MKR-71PA1	71-76	1.III/IV Materials

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		2.Small signal gain : 22dB
		3.P _{sat} :27dBm
		4.P _{1dB} :NA
MKR-75PA	75-110	1.III/IV Materials
		2.Small signal gain : 15dB
		3.P _{sat} :16dBm
		4.P _{1dB} :15dBm
MKR-81PA	81-86	1.III/IV Materials
		2.Small signal gain : 16dB
		3.P _{sat} :27dBm
		4.PAE:13%
MKR-88PA1	88-100	1.III/IV Materials
		2.Small signal gain : 16dB
		3.P _{sat} :22dBm
		4.P _{1dB} :21dBm
MKR-100PA	100-115	1.III/IV Materials
		2.Small signal gain : 17dB
		3.P _{sat} :17dBm
		4.P _{1dB} :16dBm
MKR-110PA	110-150	1.III/IV Materials
		2.Small signal gain : 19dB
		3.P _{sat} :15dBm
		4.PAE:6%
MKR-195PA	195-220	1.III/IV Materials
		2.Small signal gain : 20dB
		3.P _{sat} :12dBm
		4.P _{1dB} :10dBm
MKR-210PA	210-230	1.III/IV Materials
		2.Small signal gain : 20dB
		3.P _{sat} :16dBm
		4.P _{1dB} :NA

MKR-215PA	215-230	1.III/IV Materials
		2.Small signal gain : 20dB
		3.P _{sat} :13dBm
		4.P _{1dB} :10dBm
MKR-330PA	330-355	1.III/IV Materials
		2.Small signal gain : 10dB
		3.P _{sat} :5dBm
		4.P _{1dB} :NA

2. GaN PA Chip 氮化镓功率放大器芯片

PN 产品号	Freq(GHz) 工作频率	Psat (dBm) 饱和输出	Small Signal Gain Typ (dB) 增益	Voltage(V) 工作电压	PAE(%) 效率
MKR-2PA	2-27	36	19	18	18
NEW MKR-17PA	17-27	43	27	22	25
MKR-18PA	18-40	38	22	18	17
MKR-18PA2	18-40	40.5	21	18	15
MKR-18PA3	18-45	20	38.5	18	10
NEW MKR-18PA4	18-26.5	45	24	24	26
NEW MKR-18PA5	18-26.5	41	25	22	26
MKR-24PA	24-28	39.5	24	18	33
MKR-27PA	27-31	43	23	22	28
NEW MKR-27PA2	27-31	42	23	22	30
NEW MKR-31PA	31-37	41	21	22	26
MKR-33PA	33-37	45	23	28	22

	MKR-35PA	35-60	36	20	18	13
	MKR-46PA	46-53	39	20	18	26
	MKR-46PA2	46-53	41.5	18	18	24
	MKR-4752-P37	47-52	37.5	15	20	24
	MKR-50PA2	50-63	37	18	18	20
	MKR-60PA	60-87	29	23	16	10
	MKR-6090-P33	60-90	33.4	6.4	20	8
	MKR-60110-P22	60-110	22	19	8	-
	MKR-66PA	66-75	34.5	20	18	20
	MKR-71PA2	71-76	33	20	18	18
NEW	MKR-75PA2	75-110	28	20	15	7
	MKR-76PA	76-81	33	20	18	20
	MKR-80130-P26	80-130	26	22	8	4.3
	MKR-88PA2	88-115	24	18	16	8
	MKR-90PA	90-98	34	21	18	10
	MKR-90PA2	90-98	29	20	18	11
	MKR-90PA3	90-98	26.5	18	18	12
NEW	MKR-92PA	92-96	36	19	18	9
NEW	MKR-110PA1	110-170	19	22	10	5
	MKR-9296-P30	92-96	30	12	15	15
	MKR-9296-P33	92-96	33	10	15	14

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MKR-75110-P24	75-110	24.2	17	15	6.5
MKR-75110-P28	75-110	28.2	15	15	-
MKR-75110-P30	75-110	29	15	15	6
MKR-110170-P20	110-170	18	17	8	-
MKR-140160-P28	140-160	28	15	8	-
MKR-182222-P19	182-222	19	18	8	3
MKR-200PA	200-230	20	15	12	3

3. LNA Chip低噪声放大器芯片

PN 产品序列号	Freq(GHz) 工作频率 (GHz)	Specs 性能指标
MKR-17LNA1	17-23	1.III/IV Materials 2.Small signal gain: 28dB 3.NF:1.2dB 4.P _{1dB} :4dBm
MKR-17LNA2	17-45	1.III/IV Materials 2.Small signal gain: 23dB 3.NF:2.3dB 4.P _{1dB} :13dBm
MKR-22LNA	22-32	1.III/IV Materials 2.Small signal gain: 28dB 3.NF:1.4dB 4.P _{1dB} :5dBm
MKR-24LNA	24-43	1.III/IV Materials 2.Small signal gain: 25dB 3.NF:1.7dB 4.P _{1dB} :6dBm

MKR-32LNA	32-52	1.III/IV Materials
		2.Small signal gain: 29dB
		3.NF:1.8dB
		4.P _{1dB} :4dBm
MKR-37LNA1	37-43	1.III/IV Materials
		2.Small signal gain: 24dB
		3.NF:2.2dB
		4.P _{1dB} :4dBm
MKR-37LNA2	37-43	1.III/IV Materials
		2.Small signal gain: 22dB
		3.NF:2.2dB
		4.P _{1dB} :15dBm
MKR-37LNA3	37-43	1.III/IV Materials
		2.Small signal gain: 25dB
		3.NF:1.8dB
		4.P _{1dB} :4dBm
MKR-40LNA	40-53	1.III/IV Materials
		2.Small signal gain: 21dB
		3.NF:1.9dB
		4.P _{1dB} :4dBm
MKR-47LNA1	47-53	1.III/IV Materials
		2.Small signal gain: 21dB
		3.NF:2.5dB
		4.P _{1dB} :5dBm
MKR-47LNA2	47-75	1.III/IV Materials
		2.Small signal gain: 20dB
		3.NF:1.8dB
		4.P _{1dB} :0dBm
MKR-50LNA	50-75	1.III/IV Materials
		2.Small signal gain: 21dB
		3.NF:3dB
		4.P _{1dB} :7dBm
MKR-60LNA	60-90	1.III/IV Materials

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		2.Small signal gain: 21dB
		3.NF:3.2dB
		4.P _{1dB} :10dBm
MKR-65LNA	65-110	1.III/IV Materials
		2.Small signal gain: 20dB
		3.NF:2.3dB
		4.P _{1dB} :0dBm
MKR-66LNA	66-86	1.III/IV Materials
		2.Small signal gain: 21dB
		3.NF:3.6dB
		4.OP _{1dB} :14dBm
MKR-70LNA	70-90	1.III/IV Materials
		2.Small signal gain: 25dB
		3.NF:2.9dB
		4.P _{1dB} :9dBm
MKR-75LNA	75-110	1.III/IV Materials
		2.Small signal gain: 22dB
		3.NF:3.6dB
		4.P _{1dB} :0dBm
MKR-90LNA	90-110	1.III/IV Materials
		2.Small signal gain: 23dB
		3.NF:3.6dB
		4.P _{1dB} :0dBm
MKR-92LNA	92-96	1.III/IV Materials
		2.Small signal gain: 19dB
		3.NF:4dB
		4.P _{1dB} :11dBm
MKR-100LNA	100-160	1.III/IV Materials
		2.Small signal gain: 20dB
		3.NF:4.5dB
		4.P _{1dB} :0dBm
MKR-110LNA	110-170	1.III/IV Materials
		2.Small signal gain: 18dB

		3.NF:3.5dB
		4.P _{1dB} :0dBm
MKR-120LNA	120-200	1.III/IV Materials
		2.Small signal gain: 20dB
		3.NF:3.5dB
		4.P _{1dB} :0dBm
MKR-195LNA	195-230	1.III/IV Materials
		2.Small signal gain: 24dB
		3.NF:5.8dB
		4.P _{1dB} :NA
MKR-210LNA	210-270	1.III/IV Materials
		2.Small signal gain: 20dB
		3.NF:6.5dB
		4.P _{1dB} :NA

4. Switch PIN/FET/SMT Chip开关芯片

PN 产品序列号	Freq(GHz) 工作频率 (GHz)	Specs 性能指标
MKR-070SWS	DC-70	1.PIN Switch/SPST
		2.S21:0.8dB
		3.Isolation:30dB
		4.S11:-15dB
MKR-070SWD	DC-70	1.PIN Switch/SPDT
		2.S21:1.0dB
		3.Isolation:30dB
		4.S11:-18dB
MKR-070SW3	DC-70	1.PIN Switch/SP3T
		2.S21:1.2dB
		3.Isolation:30dB
		4.S11:-15dB
MKR-070SW4	DC-70	1.FET Switch/SP4T
		2.S21:1.8dB
		3.Isolation:25dB
		4.S11:-18dB
MKR-040SW4	0.05-40	1.FET Switch/SP4T
		2.S21:3dB
		3.Isolation:30dB
		4.S11:-10dB
MKR-050SW4	0.05-50	1. PET Switch/SP4T
		2.S21:0.7dB
		3.Isolation:30dB
		4.S11:-15dB
MKR-24SW4	24-34	1.FET Switch/SP4T
		2.S21:1.6dB
		3.Isolation:28dB
		4.S11:-15dB
MKR-30SW4	30-40	1.FET Switch/SP4T

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		2.S21:1.6dB
		3.Isolation:27.5dB
		4.S11:-28dB
MKR-32SWD	32-38	1.FET Switch/SPDT
		2.S21:1dB
		3.Isolation:20dB
		4.S11:-20dB
MKR-32SWD2	32-38	1.FET Switch/SPDT
		2.S21:1.3dB
		3.Isolation:16dB
		4.S11:-15dB
MKR-70SW4	70-95	1.FET Switch/SP4T
		2.S21:3.5dB
		3.Isolation:29dB
		4.S11:-15dB
MKR-70SWS	70-110	1. FET Switch/SPST
		2.S21:1.6dB
		3.Isolation:26dB
		4.S11:-15dB
MKR-70SWD	50-110	1. FET Switch/SPDT
		2.S21:2.5dB
		3.Isolation:35dB
		4.S11:-15dB
MKR-80SWD	80-100	1. FET Switch/SPDT
		2.S21:1.9dB
		3.Isolation:13dB
		4.S11:-18dB
MKR-200SWS	200-260	1.FET Switch/SPST
		2.S21:3dB
		3.Isolation:30dB
		4.S11:-15dB
MKR-20SW-SMT	20-32	1.FET Switch/SP4T
		2.S21:2.2dB

		3.Isolation:30dB
		4.S11:-10dB
MKR-30SW-SMT	30-40	1.FET Switch/SP4T
		2.S21:2.8dB
		3.Isolation:30dB
		4.S11:-10dB
MKR-05SW-SMT	0.05-30	1.FET Switch/SP4T
		2.S21:2.4dB
		3.Isolation:25dB
		4.S11:-10dB

5. Zero Bias Detector Chip 零偏置检波器芯片

PN 产品序列号	Freq(GHz) 工作频率 (GHz)	Specs 性能指标
MKR-0110ZBD	DC-110	1.Sensitivity:600V/W
		2.Dynamic Range:-50 to -20dBm
		3.S11:-15dB
MKR-50ZBD	50-75	1.Sensitivity:4500V/W
		2.Dynamic Range:-50 to -20dBm
		3.S11:-10dB
MKR-70ZBD	70-130	1.Sensitivity:3000V/W
		2.Dynamic Range:-50 to -20dBm
		3.S11:-10dB
MKR-90ZBD	90-170	1.Sensitivity:2500V/W

		2.Dynamic Range:-50 to -20dBm
		3.S11:-10dB
MKR-210ZBD	210-320	1.Sensitivity:2000V/W
		2.Dynamic Range:-50 to -20dBm
		3.S11:-5dB

6. AMC Chip放大倍频链芯片

PN 产品序列号	Freq(GHz) 工作频率 (GHz)	Specs 性能指标
MKR-20AMC	20-40(x2)	1.Pin:15dBm
		2.Pout:4dBm
		3.Harmonic:20dBc
NEW MKR-30AMC	30-53(x3)	1.Pin:15dBm
		2.Pout:-2dBm
		3.Harmonic:20dBc
MKR-50AMC	50-75(x2)	1.Pin:15dBm
		2.Pout:3dBm
		3.Harmonic:20dBc
NEW MKR-60AMC	60-90(x2)	1.Pin:16dBm
		2.Pout:4dBm
		3.Harmonic:30dBc
MKR-65AMC	65-150(x2)	1.Pin:15dBm
		2.Pout:4dBm
		3.Harmonic:NA
MKR-70AMC2	70-90(x8)	1.Pin:3-7dBm
		2.Pout:2dBm
		3.Harmonic:20dBc
MKR-70AMC	70-90(x8)	1.Pin:3-7dBm

		2.Pout:11dBm
		3.Harmonic:20dBc
MKR-70AMC29	70-90(x9)	1.Pin:14-17dBm
		2.Pout:2dBm
		3.Harmonic:25dBc
MKR-75AMC	75-110(x6)	1.Pin:16-19dBm
		2.Pout:7dBm
		3.Harmonic:20dBc
MKR-75AMC3	75-110(x3)	1.Pin:16dBm
		2.Pout:0dBm
		3. Conversion loss: 16dB
MKR-80AMC3	80-95(x8)	1.Pin:3-7dBm
		2.Pout:3dBm
		3.Harmonic:15dBc
MKR-80AMC	80-95(x8)	1.Pin:3-7dBm
		2.Pout:12dBm
		3.Harmonic:15dBc
MKR-80AMC2	80-100(x9)	1.Pin:14-17dBm
		2.Pout:2dBm
		3.Harmonic:30dBc
MKR-85AMC	85-105(x9)	1.Pin:14-17dBm
		2.Pout:0dBm
		3.Harmonic:30dBc
MKR-90AMC	90-170(x2)	1.Pin:15dBm
		2.Pout:4dBm
		3.Harmonic:NA
MKR-110AMC	110-170(x3)	1.Pin:15dBm
		2. Conversion loss:17dB
		3.Harmonic:NA
MKR-195AMC	195-225(x2)	1.Pin:12dBm
		2.Pout:12dBm
		3.Harmonic:NA

7. Mixer Chip混频器芯片

PN 产品序列号	Freq(GHz) 工作频率 (GHz)	Specs 性能指标
MKR-IQ75MIX	75GHz~85GHz	1. IQ Mixer
		2.IF:DC-5GHz
		3.Conversion Loss:11dB
		4.LO Power:8dBm
MKR-20MIX	20-50	1. Fundamental Mixer
		2.IF:DC-16GHz
		3.Conversion Loss:9dB
		4.LO Power:8dBm
MKR-50MIX	50-75	1. Fundamental Mixer
		2.IF:DC-10GHz
		3.Conversion Loss:8dB
		4.LO Power:13dBm
MKR-70MIX	70-90	1. Fundamental Mixer
		2.IF:DC-12GHz
		3.Conversion Loss:8.5dB
		4.LO Power:0dBm
MKR-70MIX8	70-90	1. Fundamental Mixer
		2.IF:DC-12GHz
		3.Conversion Loss:8.5dB
		4.LO Power:8dBm
MKR-70MIX1	70-110	1. Fundamental Mixer
		2.IF:DC-35GHz
		3.Conversion Loss:14dB
		4.LO Power:8dBm
MKR-70MIX2	70-110	1. Fundamental Mixer
		2.IF:DC-35GHz
		3.Conversion Loss:12dB
		4.LO Power:13dBm

MKR-75MIX	75-110	1. Fundamental Mixer
		2. IF: DC-12GHz
		3. Conversion Loss: 9dB
		4. LO Power: 0dBm
MKR-75MIX8	75-110	1. Fundamental Mixer
		2. IF: DC-12GHz
		3. Conversion Loss: 9dB
		4. LO Power: 8dBm
MKR-110MIX	110-170	1. 2 nd -Harmonic Mixer
		2. IF: DC-10GHz
		3. Conversion Loss: 14dB
		4. LO Power: 13dBm
MKR-120MIX	120-160	1. 2 nd -Harmonic Mixer
		2. IF: DC-12GHz
		3. Conversion Loss: 13dB
		4. LO Power: 13dBm
MKR-175MIX	175-200	1. 2 nd -Harmonic Mixer
		2. IF: DC-12GHz
		3. Conversion Loss: 14dB
		4. LO Power: 8dBm
MKR-200MIX	200-220	1. Fundamental Mixer
		2. IF: DC-15GHz
		3. Conversion Loss: 12dB
		4. LO Power: 0dBm
MKR-200MIX2	200-220	1. 2 nd -Harmonic Mixer
		2. IF: DC-20GHz
		3. Conversion Loss: 15dB
		4. LO Power: 8dBm
NEW MKR-200MIX3	200-230	1. 2 nd -Harmonic Mixer
		2. IF: DC-34GHz
		3. Conversion Loss: 15dB
		4. LO Power: 0dBm
NEW MKR-200MIX4	200-230	1. 2 nd -Harmonic Mixer

		2.IF: DC-34GHz
		3.Conversion Loss:13dB
		4.LO Power:8dBm
MKR-210MIX	210-230	1. Fundamental Mixer
		2.IF:DC-20GHz
		3.Conversion Loss:13dB
		4.LO Power:6dBm

8. Attenuator chip 衰减器芯片

PN 产品序列号	Freq(GHz) 工作频率 (GHz)	Specs 性能指标
MKR-060ATT	DC~60	1. Voltage Variable Attenuator 2. Attenuation range:0dB~15dB 3. Insertion loss:3dB 4. VSWR of on / attenuation state: 1.5/2.5
MKR-50ATT	50-75	1.Voltage Variable Attenuator 2. Attenuation range:0dB~27dB 3. Insertion loss:1.4dB 4. VSWR of on / attenuation state: 1.5/1.5
MKR-70ATT	70-110	1. Voltage Variable Attenuator 2. Attenuation range:0dB~20dB 3. Insertion loss:1.4dB 4. VSWR of on / attenuation state: 1.3/1.5
MKR-110ATT	110-140	1. Voltage Variable Attenuator 2. Attenuation range:0dB~20dB 3. Insertion loss:3dB 4. VSWR of on / attenuation state: 1.8/1.8
MKR-110ATT1	110-170	1. Voltage Variable Attenuator 2. Attenuation range:0dB~22dB 3. Insertion loss:2dB 4. VSWR of on / attenuation state: 2.0/1.5
MKR-180ATT	180-240	1. Voltage Variable Attenuator

		2. Attenuation range:0dB~18dB
		3. Insertion loss:4.5dB
		4. VSWR of on / attenuation state: 1.5/2.2
MKR-70ATT9	70-110	1. Fixed Attenuator
		2. Attenuation:2dB~9dB
		3. VSWR_IN/OUT: 1.2/1.2
MKR-70ATT18	70-110	1. Fixed Attenuator
		2. Attenuation:18dB
		3. VSWR_IN/OUT: 1.2/1.2
MKR-70ATT35	70-110	1. Fixed Attenuator
		2. Attenuation:35dB
		3. VSWR_IN/OUT: 1.2/1.2

9. Multifunctional Chip多功能芯片

PN 产品序列号	Freq(GHz) 工作频率 (GHz)	Specs 性能指标
MKR-9296BF-4R	92-96	1. 4-Channel Beamforming Receiver Chip
		2. NF: 7dB
		3. Small signal gain: 22dB
		4. Phase shift step: 22.5 °@94GHz
		5. Phase shift resolution: 5 °
MKR-9296BF-4T	92-96	1. 4-Channel Beamforming Transmitter Chip
		2. Psat: 14dBm
		3. Small signal gain: 25dB
		4. Phase shift step: 22.5 °@94GHz
		5. Phase shift resolution: 5 °
MKR-9498BF-4R	94-98	1. 4-Channel Beamforming Receiver Chip
		2. NF: 7dB
		3. Small signal gain: 22dB
		4. Phase shift step: 11.25 °@96GHz
		5. Phase shift resolution: 3 °
MKR-9498BF-4T	94-98	1. 4-Channel Beamforming Transmitter Chip

		2. Psat: 14dBm
		3. Small signal gain: 25dB
		4. Phase shift step: 11.25 °@94GHz
		5. Phase shift resolution: 3 °
MKR-90100UP3	90-100	1. Up Converter Multifunction Chip
		2. LO: 28GHz
		3. IF: 6GHz-16GHz
		4. Conversion gain:-1dB
MKR-90100DW3	90-100	1. Down Converter Multifunction Chip
		2. LO: 28GHz
		3. IF: 6GHz-16GHz
		4. Conversion gain:3dB
MKR-9498DW4	94-98	1. Down Converter Multifunction Chip
		2. LO: 20GHz
		3. IF: 14GHz-18GHz
		4. Conversion gain:-2dB
MKR-92100UP4	94-98	1. Up Converter Multifunction Chip
		2. LO: 20GHz
		3. IF: 12GHz-20GHz
		4. Conversion gain:-1dB