

THz CHIP LIST 太赫兹芯片系列

——BY CHIP FUNCTION 按芯片功能分类

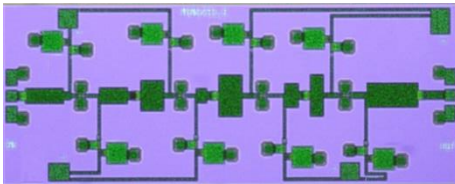
VERSION:20210909FUNCTIONLIST

➤ **Key Feature特点:**

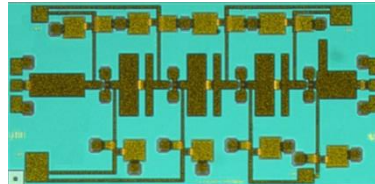
1. Made in China 中国制造
2. Chip or Packaged module available 可提供芯片或者模块
3. Datasheet on request 可提供产品说明书
4. No free samples 没有免费的样品
5. Customized Chip on request 可按需定制芯片

➤ **Product Picture产品图**

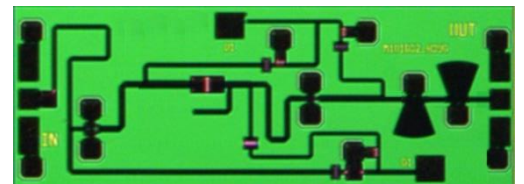
PA Chip功放芯片



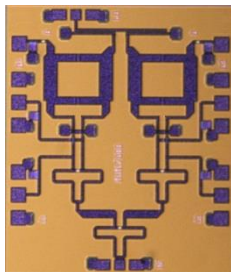
LNA Chip低噪放



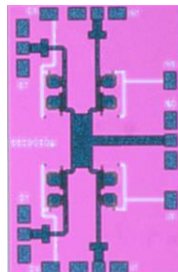
AMC Chip倍频器芯片



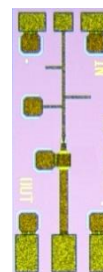
Mixer Chip混频器芯片



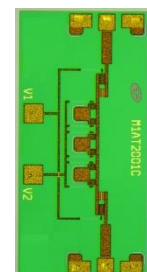
Switch Chip开关芯片



Detector Chip检波器芯片



Attenuator Chip衰减器芯片



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.Power gain: 12dB
		P _{sat} :NA
		4.P _{1dB} :15dBm
MKR-6PA	6-27	1.III/IV Materials
		2.Power gain: 23dB
		3.P _{sat} :21dBm
		4.P _{1dB} :19dBm
MKR-15PA	15-43	1.III/IV Materials
		2.Power gain: 20dB
		3.P _{sat} :30dBm
		4.P _{1dB} :29.5dBm
MKR-24PA1	24-28	1.III/IV Materials
		2.Power gain: 24dB
		3.P _{sat} :30dBm
		4.P _{1dB} :NA
MKR-24PA2	24-43	1.III/IV Materials
		2.Power gain: 16dB
		3.P _{sat} :36dBm
		4.P _{1dB} :NA
MKR-20PA	20-50	1.III/IV Materials
		2.Power gain: 26dB
		3.P _{sat} :24dBm
		4.P _{1dB} :23dBm
MKR-30PA	30-75	1.III/IV Materials
		2.Power gain: 20dB
		3.P _{sat} :21dBm
		4.P _{1dB} :20dBm

MKR-36PA	36-42	1.III/IV Materials
		2.Power gain: 22dB
		3.P _{sat} :40dBm@28%PAE
		4.P _{1dB} :38dBm
MKR-50PA	50-90	1.III/IV Materials
		2.Power gain: 21dB
		3.P _{sat} :20dBm
		4.P _{1dB} :19dBm
MKR-70PA	70-90	1.III/IV Materials
		2.Power gain: 23dB
		3.P _{sat} :17dBm
		4.P _{1dB} :16dBm
MKR-71PA1	71-76	1.III/IV Materials
		2.Power gain: 22dB
		3.P _{sat} :27dBm
		4.P _{1dB} :NA
MKR-71PA2	71-76	1.III/IV Materials
		2.Power gain: 20dB
		3.P _{sat} :33dBm
		4.P _{1dB} :NA
MKR-81PA	81-86	1.III/IV Materials
		2.Power gain: 20dB
		3.P _{sat} :25.5dBm
		4.P _{1dB} :NA
MKR-88PA	88-100	1.III/IV Materials
		2.Power gain: 16dB
		3.P _{sat} :22dBm
		4.P _{1dB} :21dBm
MKR-75PA	75-110	1.III/IV Materials
		2.Power gain: 15dB
		3.P _{sat} :16dBm
		4.P _{1dB} :15dBm

MKR-90PA	90-120	1.III/IV Materials
		2.Power gain: 18dB
		3.P _{sat} :23dBm
		4.P _{1dB} :NA
MKR-100PA	100-115	1.III/IV Materials
		2.Power gain: 17dB
		3.P _{sat} :17dBm
		4.P _{1dB} :16dBm
MKR-195PA	195-220	1.III/IV Materials
		2.Power gain: 20dB
		3.P _{sat} :12dBm
		4.P _{1dB} :10dBm
MKR-215PA	215-230	1.III/IV Materials
		2.Power gain: 20dB
		3.P _{sat} :13dBm
		4.P _{1dB} :10dBm
MKR-210PA	210-230	1.III/IV Materials
		2.Power gain: 20dB
		3.P _{sat} :16dBm
		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	Gain Typ (dB) 增益	Voltage(V) 工作电压	PAE(%) 效率	Type 类型
MKR-4752-P37	47-52	37.5	15	20	24	Pulse/CW
MKR-75110-P24	75-110	24.2	17	15	6.5	Pulse/CW
MKR-75110-P28	75-110	28.2	15	15	-	Pulse/CW
MKR-9296-P30	92-96	30	12	15	15	Pulse/CW
MKR-9296-P33	92-96	33	10	15	14	Pulse/CW

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-17LNA	17-23	1.III/IV Materials
		2.Power gain: 28dB
		3.NF:1.2dB
		4.P _{1dB} :4dBm
MKR-22LNA	22-32	1.III/IV Materials
		2.Power gain: 28dB
		3.NF:1.4dB
		4.P _{1dB} :5dBm
MKR-32LNA	32-52	1.III/IV Materials
		2.Power gain: 29dB
		3.NF:1.8dB
		4.P _{1dB} :4dBm
MKR-37LNA1	37-43	1.III/IV Materials
		2.Power gain: 24dB
		3.NF:2.2dB
		4.P _{1dB} :4dBm
MKR-37LNA2	37-43	1.III/IV Materials
		2.Power gain: 22dB
		3.NF:2.2dB
		4.P _{1dB} :15dBm
MKR-47LNA	47-53	1.III/IV Materials
		2.Power gain: 21dB
		3.NF:2.5dB
		4.P _{1dB} :5dBm
MKR-50LNA	50-75	1.III/IV Materials
		2.Power gain: 21dB
		3.NF:3dB
		4.P _{1dB} :7dBm

MKR-60LNA	60-90	1.III/IV Materials
		2.Power gain: 21dB
		3.NF:3.2dB
		4.P _{1dB} :10dBm
MKR-70LNA	70-90	1.III/IV Materials
		2.Power gain: 25dB
		3.NF:2.9dB
		4.P _{1dB} :9dBm
MKR-90LNA	90-110	1.III/IV Materials
		2.Power gain: 23dB
		3.NF:3.6dB
		4.P _{1dB} :0dBm
MKR-75LNA	75-110	1.III/IV Materials
		2.Power gain: 22dB
		3.NF:3.6dB
		4.P _{1dB} :0dBm
MKR-65LNA	65-110	1.III/IV Materials
		2.Power gain: 20dB
		3.NF:2.3dB
		4.P _{1dB} :0dBm
MKR-100LNA	100-160	1.III/IV Materials
		2.Power gain: 20dB
		3.NF:4.5dB
		4.P _{1dB} :0dBm
MKR-110LNA	110-170	1.III/IV Materials
		2.Power gain: 18dB
		3.NF:3.5dB
		4.P _{1dB} :0dBm
MKR-120LNA	120-200	1.III/IV Materials
		2.Power gain: 20dB
		3.NF:3.5dB
		4.P _{1dB} :0dBm

MKR-195LNA	195-230	1.III/IV Materials
		2.Power gain: 24dB
		3.NF:5.8dB
		4.P _{1dB} :NA
MKR-210LNA	210-270	1.III/IV Materials
		2.Power 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.PIN Switch/SP4T
		2.S21:1.8dB
		3.Isolation:25dB
		4.S11:-18dB
MKR-050SW4	0.05-50	1.PIN 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
		2.S21:1.6dB
		3.Isolation:27.5dB
		4.S11:-20dB

MKR-040SW4	0.05-40	1.FET Switch/SP4T
		2.S21:3dB
		3.Isolation:30dB
		4.S11:-10dB
MKR-70SWS	70-110	1.PIN Switch/SPST
		2.S21:1.6dB
		3.Isolation:26dB
		4.S11:-15dB
MKR-70SWD	70-110	1.PIN Switch/SPDT
		2.S21:2.5dB
		3.Isolation:35dB
		4.S11:-15dB
MKR-200SWS	200-260	1.FET Switch/SPST
		2.S21:3dB
		3.Isolation:30dB
		4.S11:-15dB
MKR-70SW4	70-95	1.FET Switch/SP4T
		2.S21:3.5dB
		3.Isolation:29dB
		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-50AMC	50-75(x2)	1.Pin:20dBm
		2.Pout:9dBm
		3.Harmonic:20dBc
MKR-60AMC	60-90(x2)	1.Pin:20dBm
		2.Pout:7dBm
		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-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-75AMC	75-110(x6)	1.Pin:16-19dBm
		2.Pout:7dBm
		3.Harmonic:20dBc
MKR-65AMC	65-150(x2)	1.Pin:15dBm
		2.Pout:4dBm
		3.Harmonic:NA
MKR-110AMC	110-150(x3)	1.Pin:17dBm
		2.Pout:0dBm
		3.Harmonic:NA
MKR-90AMC	90-170(x2)	1.Pin:15dBm
		2.Pout:4dBm
		3.Harmonic:NA
MKR-190AMC	190-220(x2)	1.Pin:10dBm
		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-20MIX	20-50	1. Fundamental Mixer
		2. IF:DC-16GHz
		3. Conversion Loss:9dB
		4. LO Power:8dBm
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-200MIX	200-220	1. Fundamental Mixer
		2. IF:DC-15GHz
		3. Conversion Loss:12dB
		4. LO Power:0dBm
MKR-210MIX	210-230	1. 2 nd Harmonic Mixer
		2. IF:DC-5GHz
		3. Conversion Loss:13dB
		4. LO Power:13dBm

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. IL_VSWR/ATT_VSWR: 1.5/2.5
MKR-50ATT	50-75	1. Voltage Variable Attenuator
		2. Attenuation range:0dB~27dB
		3. Insertion loss:1.4dB
		4. IL_VSWR/ATT_VSWR: 1.5/1.5
MKR-70ATT	70-110	1. Voltage Variable Attenuator
		2. Attenuation range:0dB~20dB
		3. Insertion loss:1.4dB
		4. IL_VSWR/ATT_VSWR: 1.3/1.5
MKR-110ATT	110-140	1. Voltage Variable Attenuator
		2. Attenuation range:0dB~20dB
		3. Insertion loss:3dB
		4. IL_VSWR/ATT_VSWR: 1.8/1.8
MKR-110ATT9	70-110	1. Fixed Attenuator
		2. Attenuation:2dB~9dB
		3. VSWR_IN/OUT: 1.2/1.2
MKR-110ATT18	70-110	1. Fixed Attenuator
		2. Attenuation:18dB
		3. VSWR_IN/OUT: 1.2/1.2
MKR-110ATT35	70-110	1. Fixed Attenuator
		2. Attenuation:35dB
		3. VSWR_IN/OUT: 1.2/1.2