

性能特点：

频率范围：DC-40GHz

衰减范围：0/1/2/3.....28/29/30dB

插损波动：0.4dB

输入/输出电压驻波比：1.3/1.3

芯片尺寸：0.762mm×0.762mm×0.1mm

产品简介：

HH-AT40 是一款性能优良的 GaAs MMIC 固定衰减器。芯片覆盖 DC-40GHz 频段范围，衰减范围可选，插损波动小于 0.4dB，输入输出电压驻波比小于 1.3。

电参数： ($T_A=25^{\circ}\text{C}$)

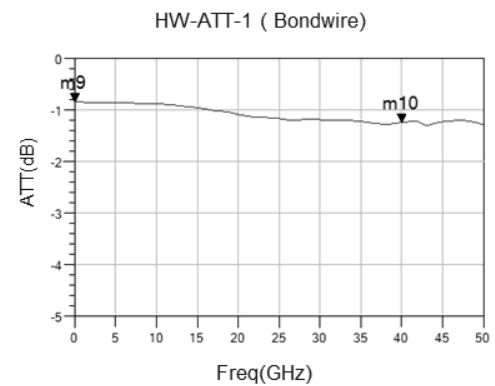
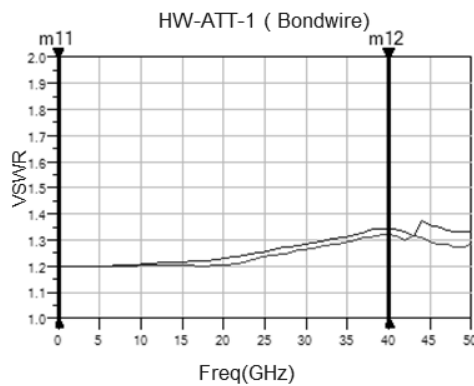
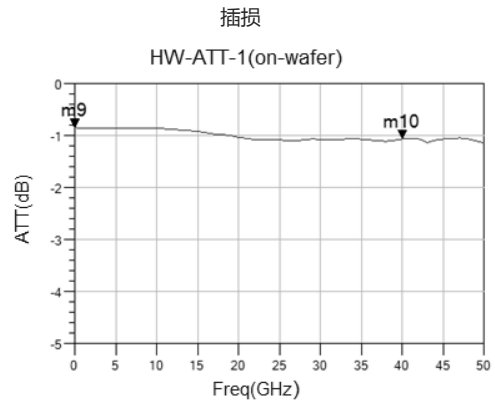
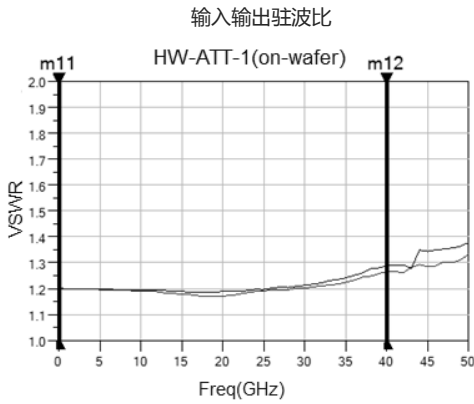
指标	最小值	典型值	最大值	单位	
频率范围	DC-40			GHz	
衰减量	0dB	0	0	0.5	dB
	1dB	0.9	1	1.2	dB
	2dB	2	2	2.4	dB
	3dB	2.9	3	3.4	dB
	4dB	3.8	4	4.3	dB
	5dB	4.9	5	5.4	dB
	6dB	5.8	6	6.4	dB
	7dB	6.8	7	7.3	dB
	8dB	7.9	8	8.4	dB
	9dB	8.9	9	9.3	dB
	10dB	10	10	10.3	dB
	11dB	11	11	11.4	dB
	12dB	11.8	12	12.3	dB
	13dB	12.8	13	13.3	dB
	14dB	14	14	14.3	dB
	15dB	15	15	15.4	dB
	16dB	15.9	16	16.4	dB
	17dB	16.8	17	17.4	dB
	18dB	17.8	18	18.3	dB
	19dB	18.8	19	19.3	dB
	20dB	19.9	20	20.3	dB
	21dB	20.9	21	21.3	dB
	22dB	21.9	22	22.3	dB
	23dB	23	23	23.3	dB
	24dB	23.8	24	24.4	dB
	25dB	24.9	25	25.3	dB
26dB	26	26	26.3	dB	

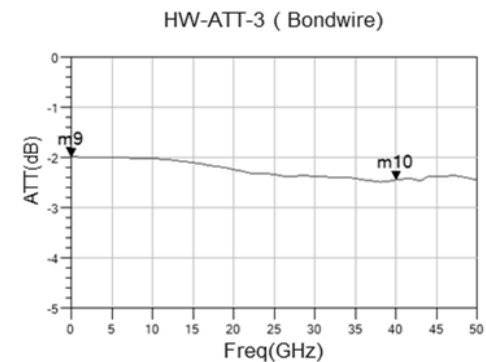
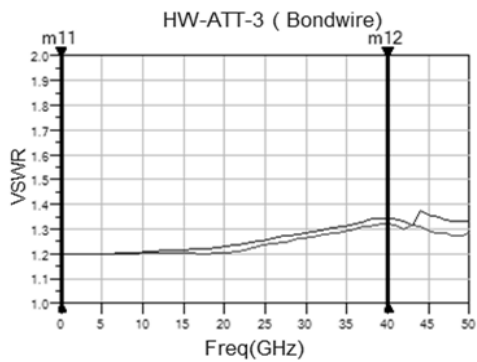
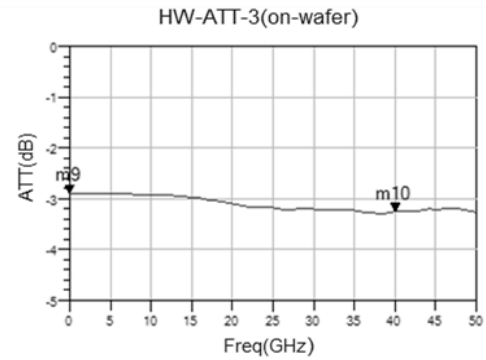
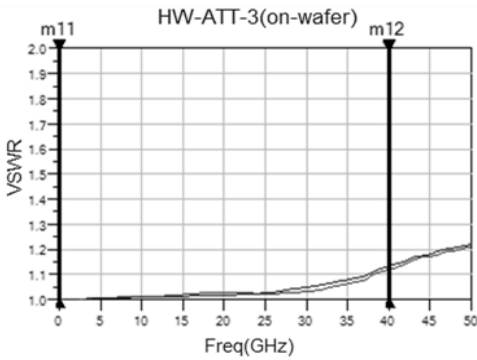
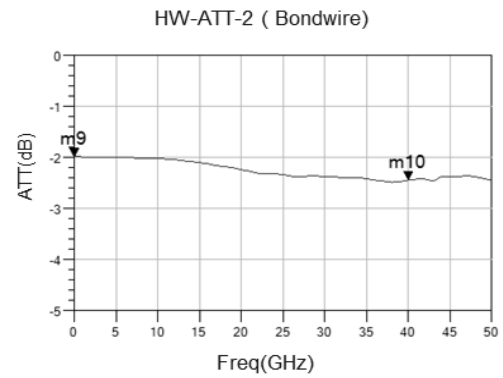
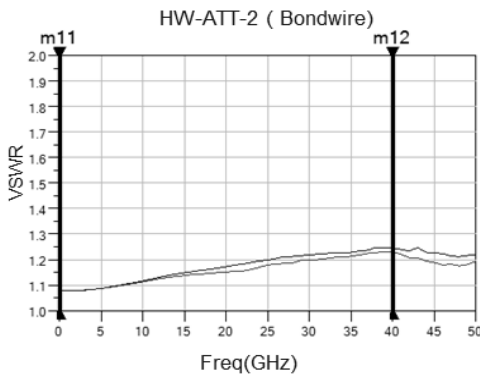
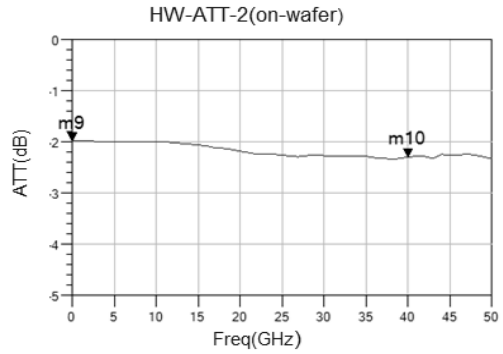
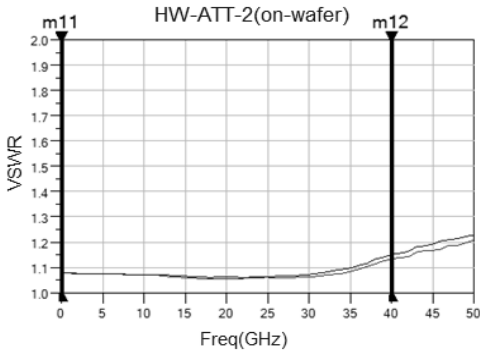
	27dB	26.8	27	27.4	dB
	28dB	27.9	28	28.4	dB
	29dB	28.8	29	29.3	dB
	30dB	29.8	30	30.2	dB
输入驻波比		-	1.2	1.3	-
输出驻波比		-	1.2	1.3	-

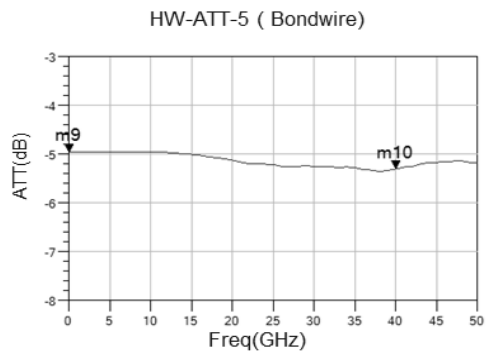
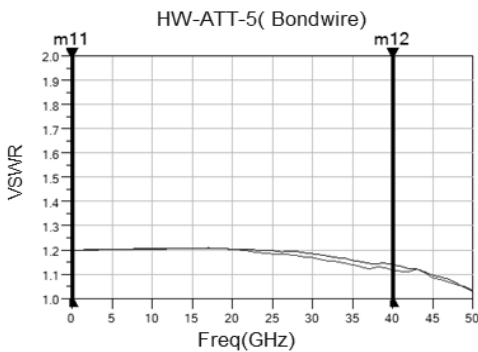
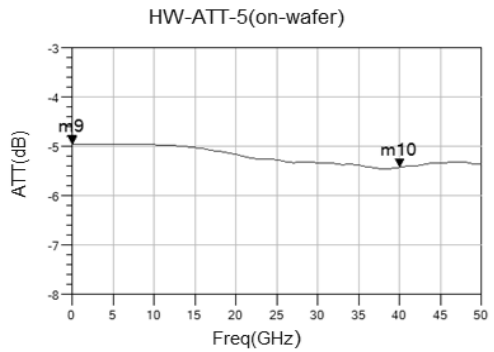
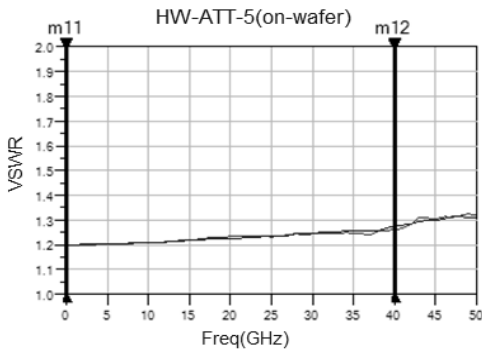
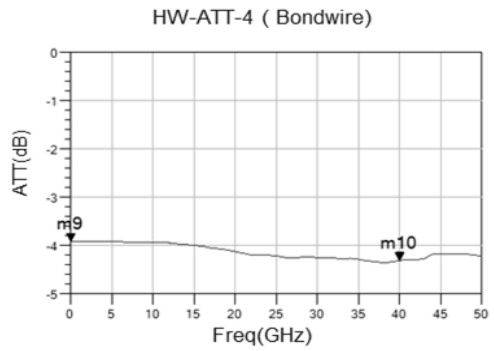
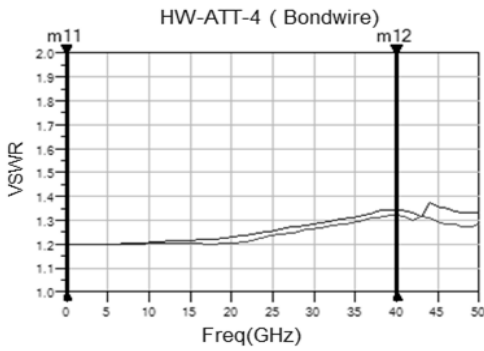
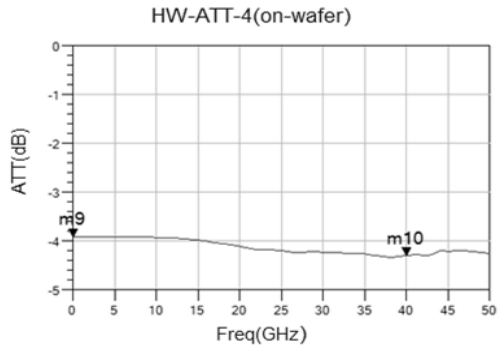
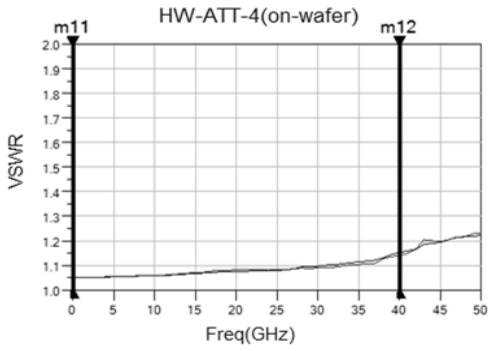
使用限制参数：(超过以上任何一项最大限额都有可能造成永久损坏。)

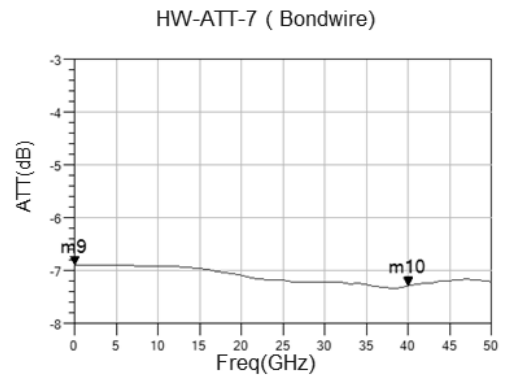
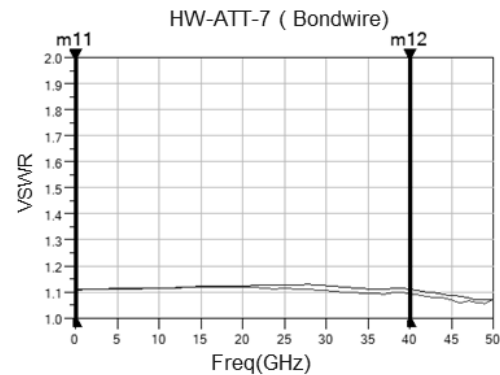
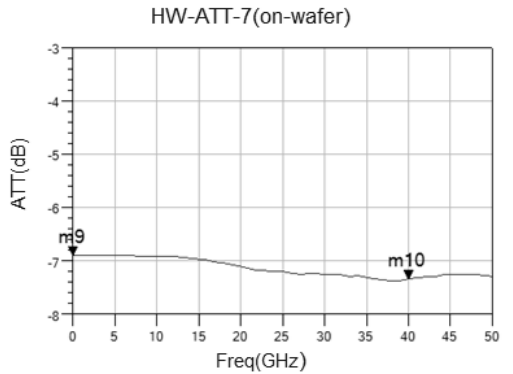
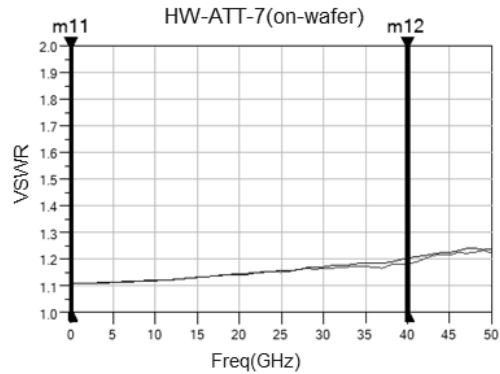
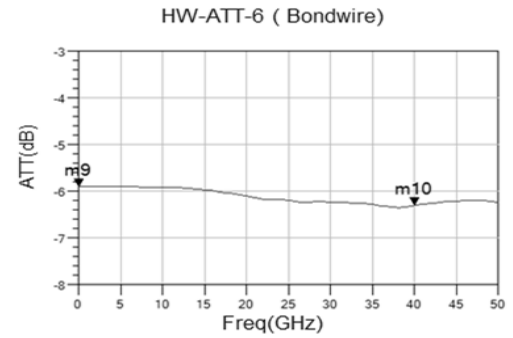
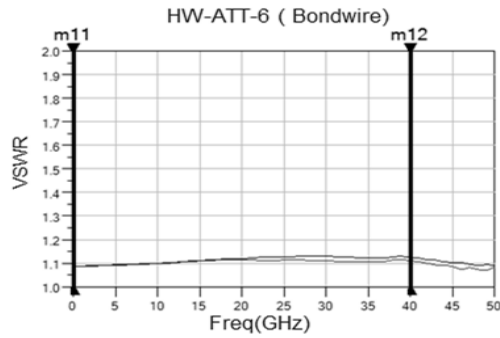
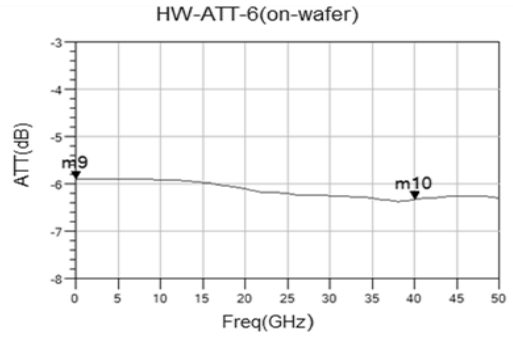
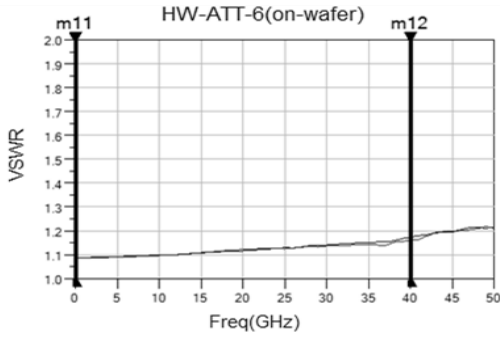
最大输入功率	27 dBm
存储温度	-65°C-150°C
使用温度	-55°C-125°C

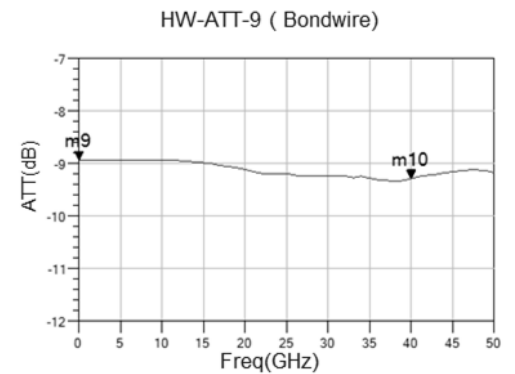
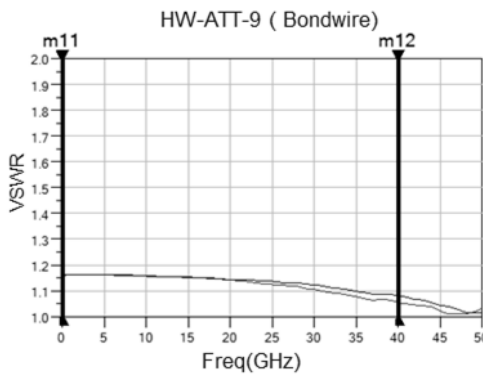
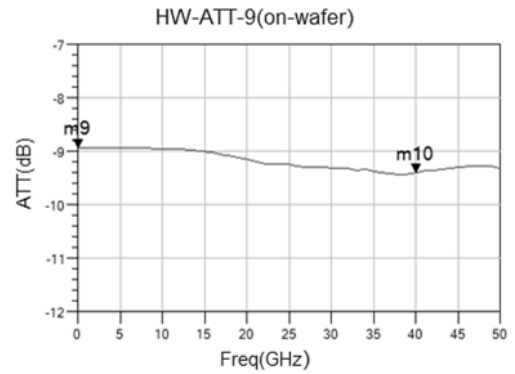
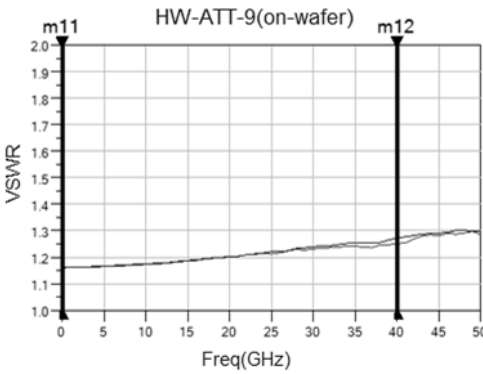
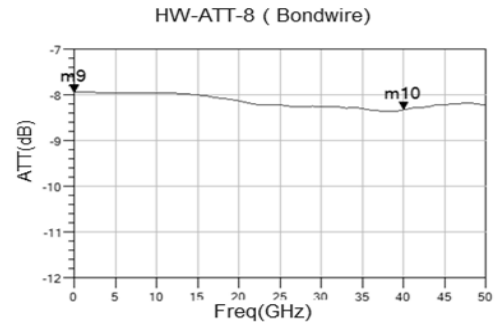
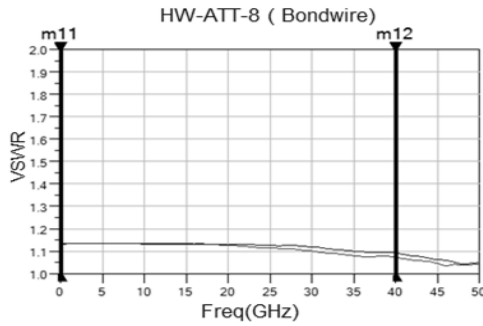
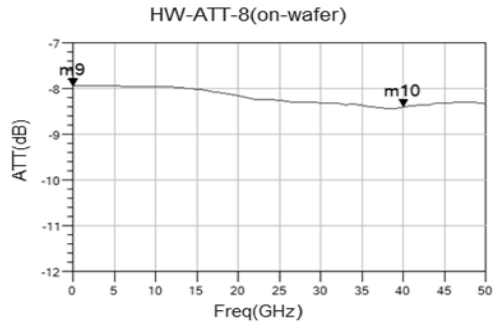
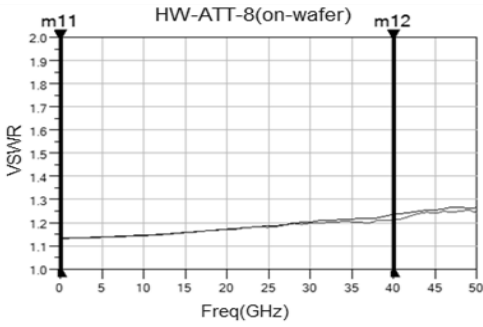
典型曲线：

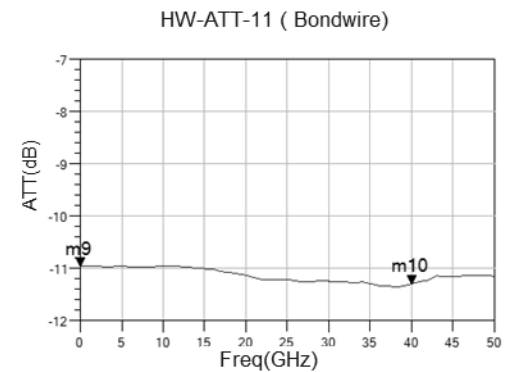
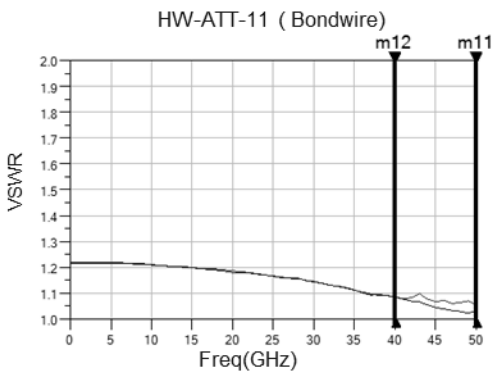
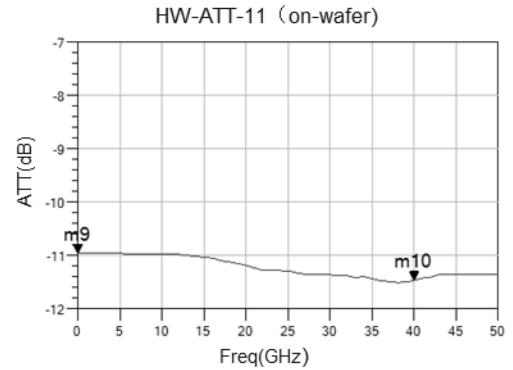
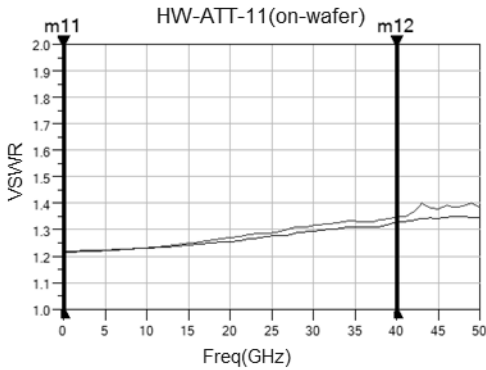
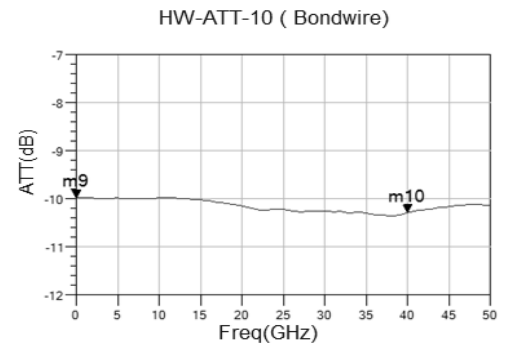
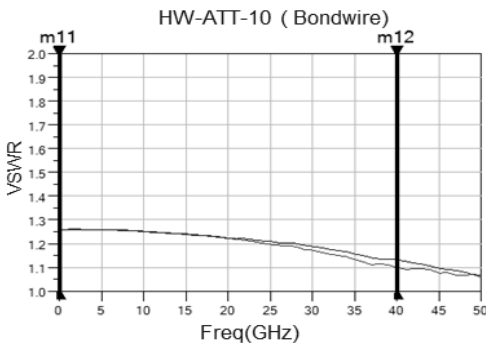
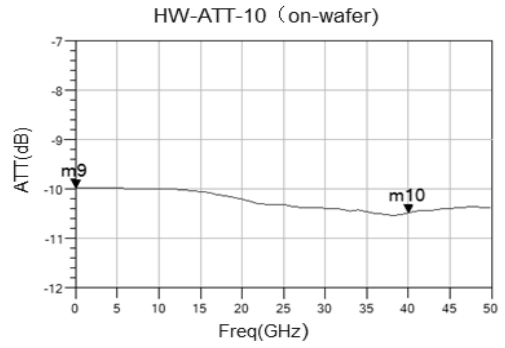
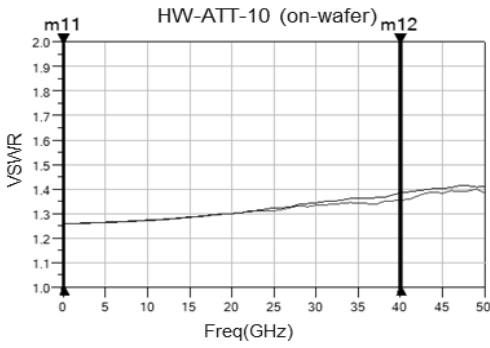


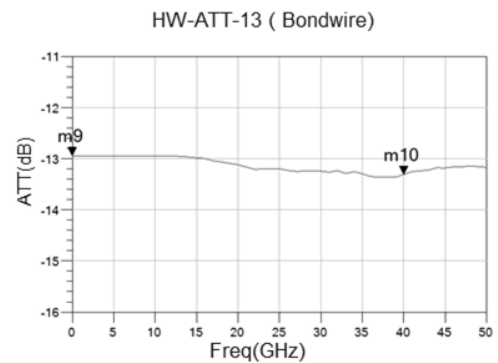
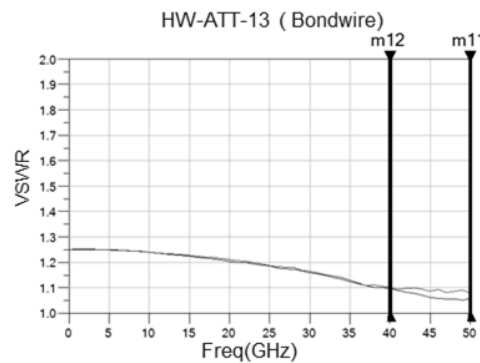
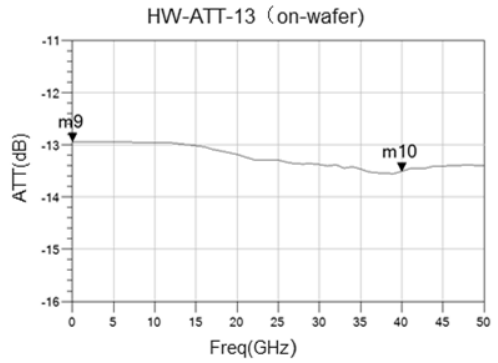
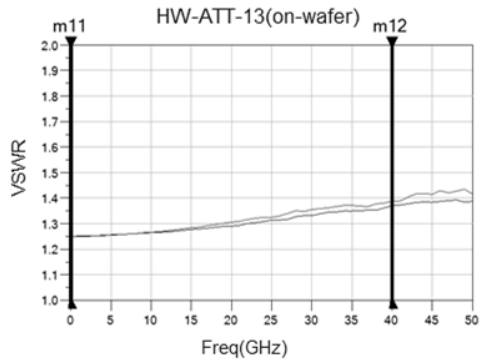
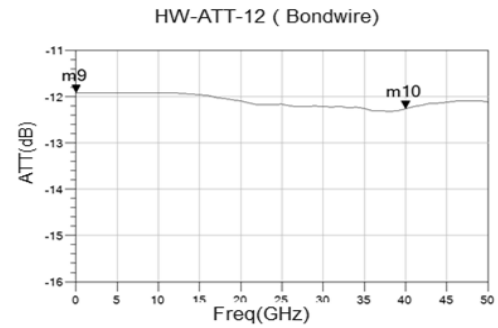
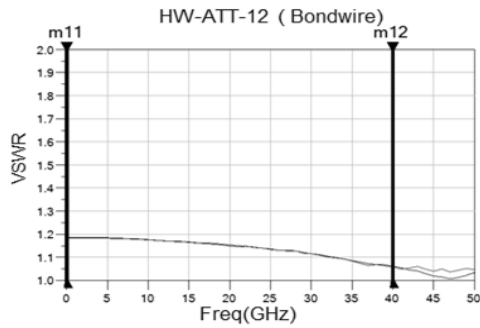
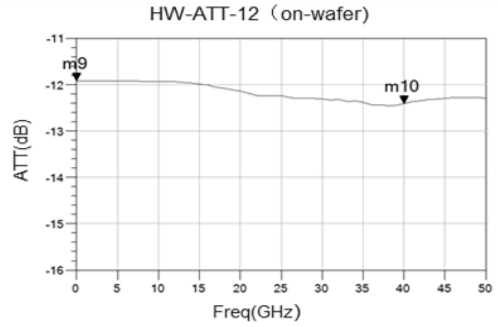
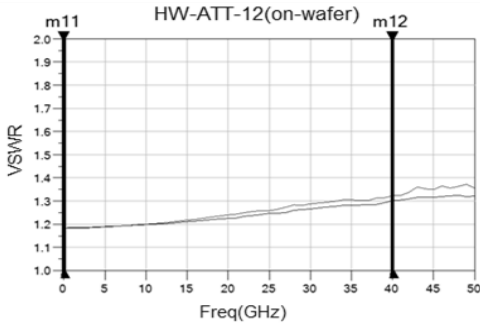


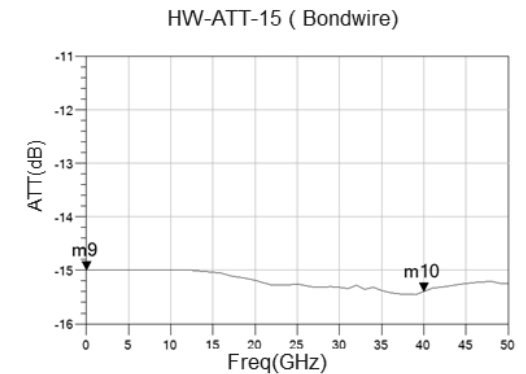
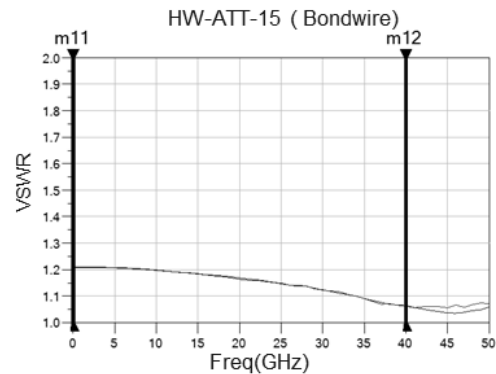
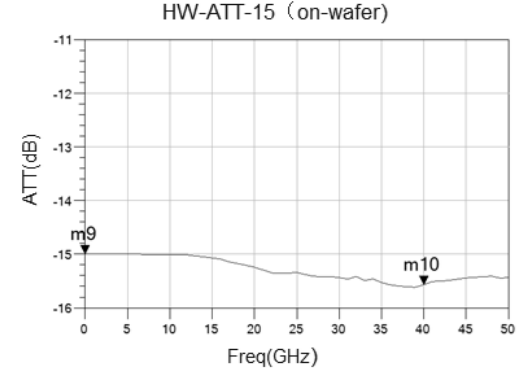
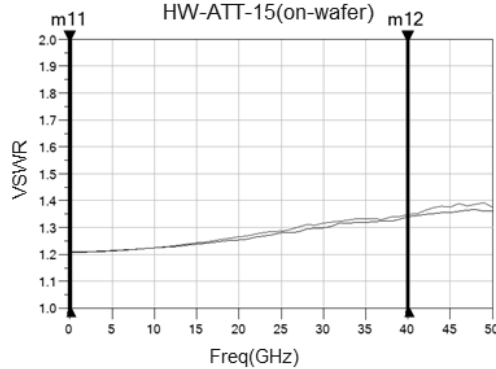
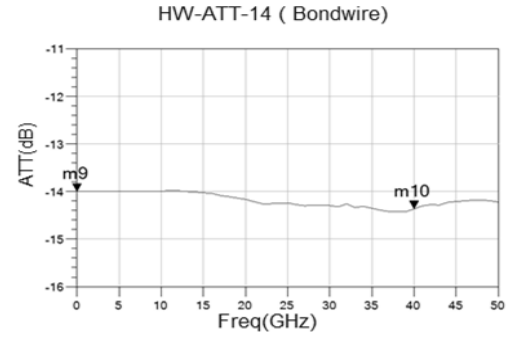
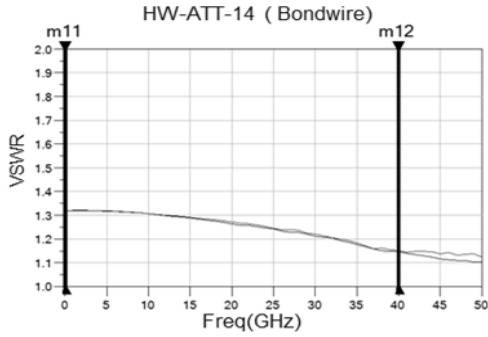
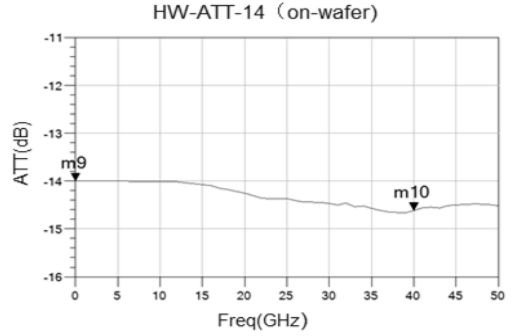
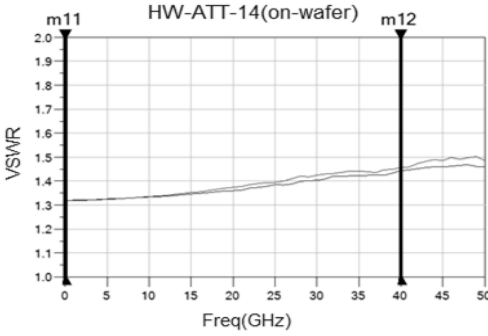


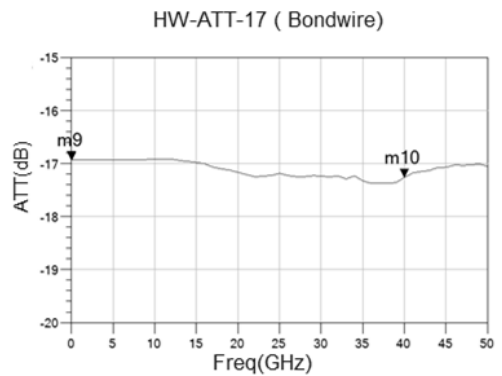
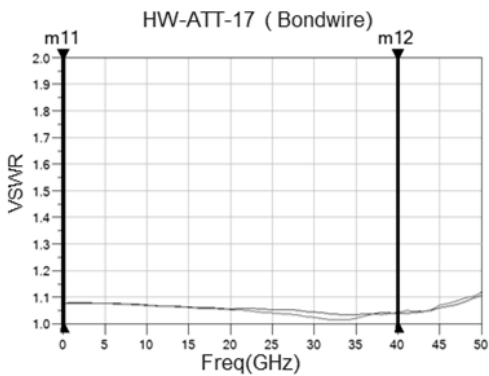
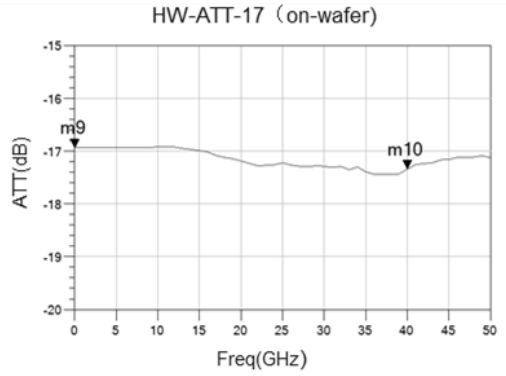
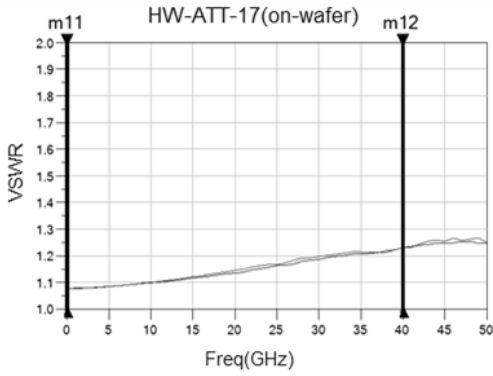
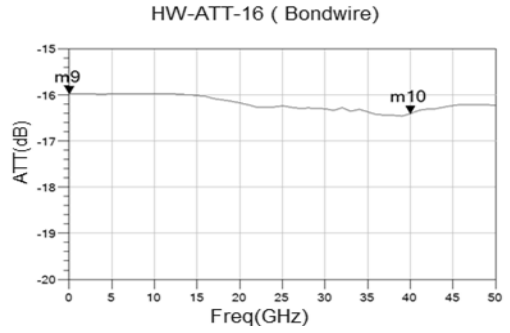
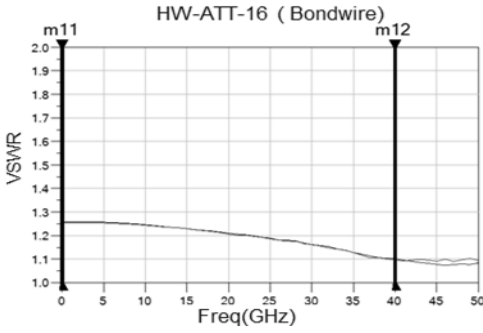
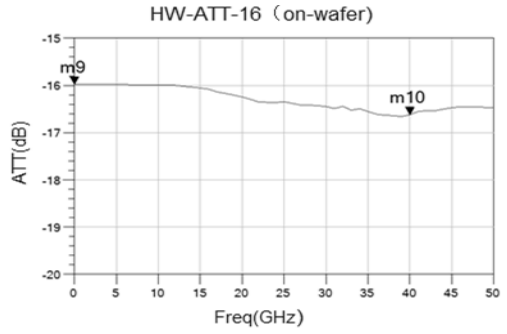
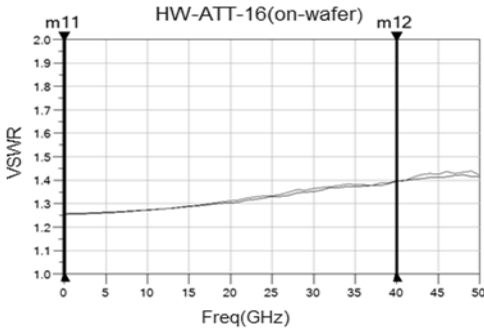


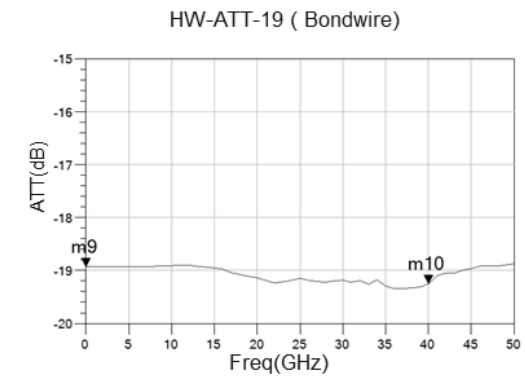
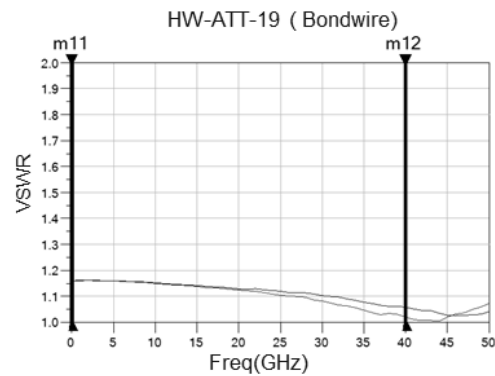
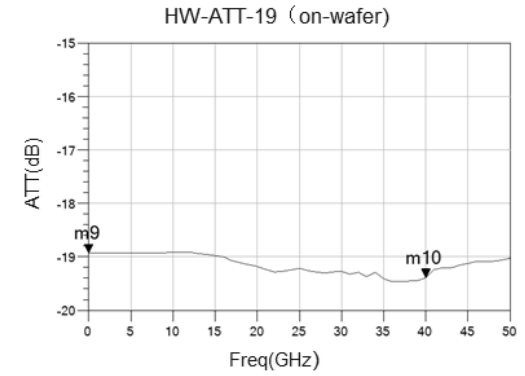
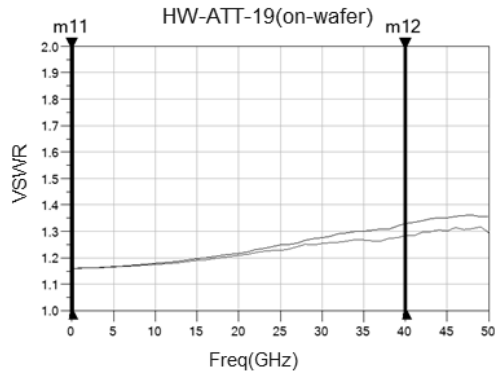
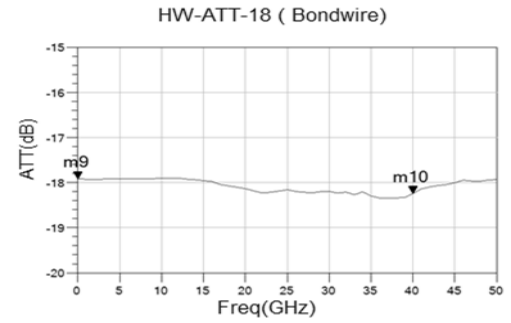
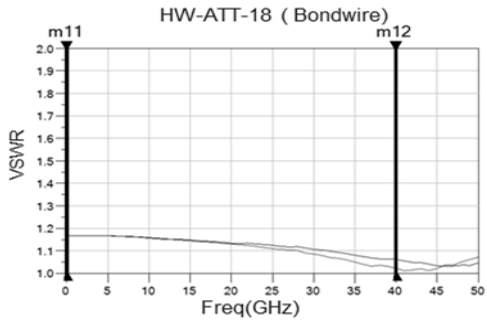
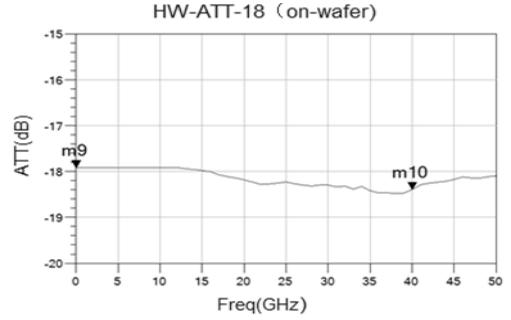
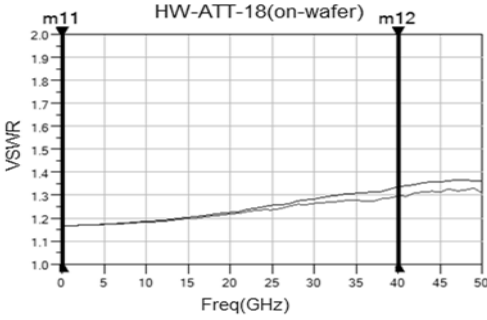


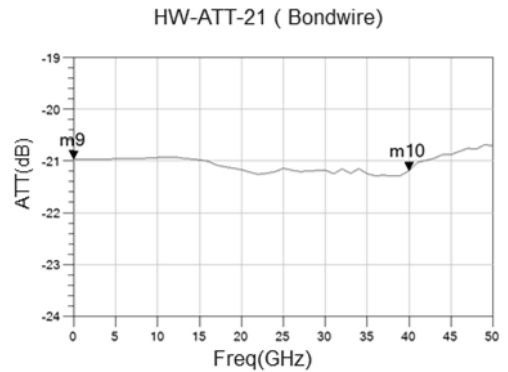
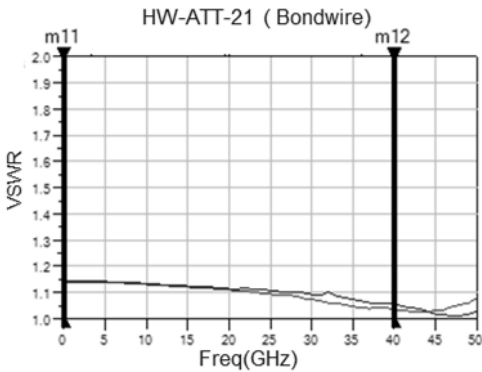
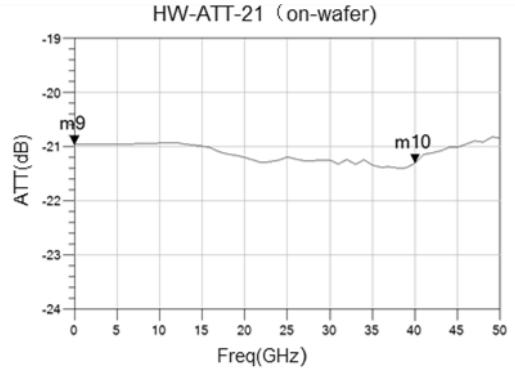
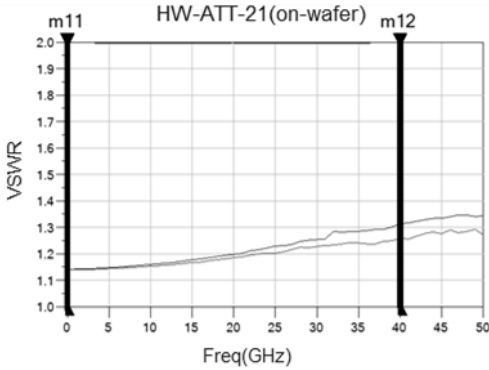
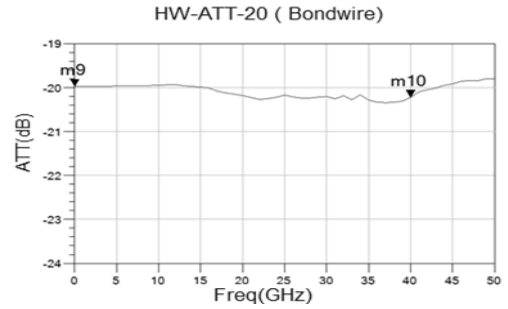
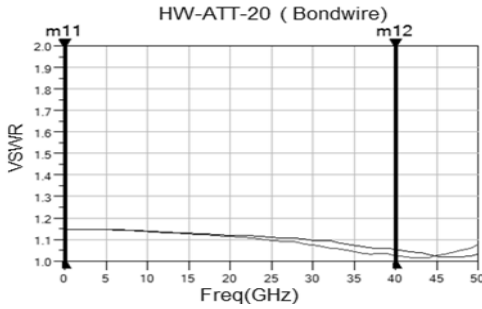
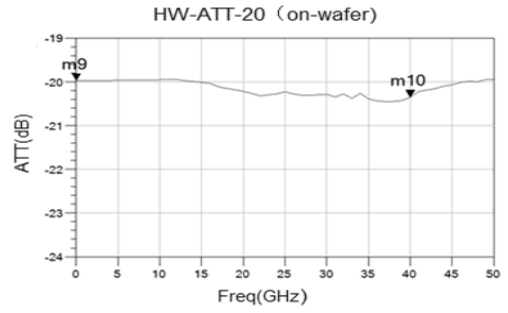
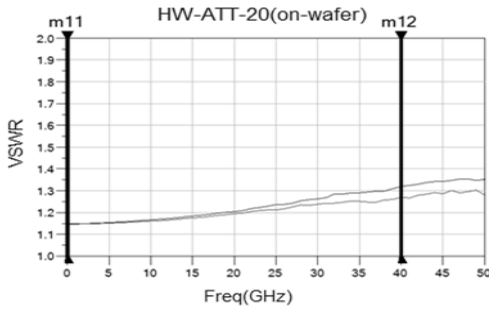


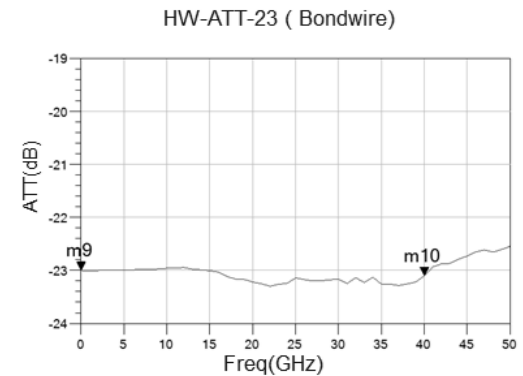
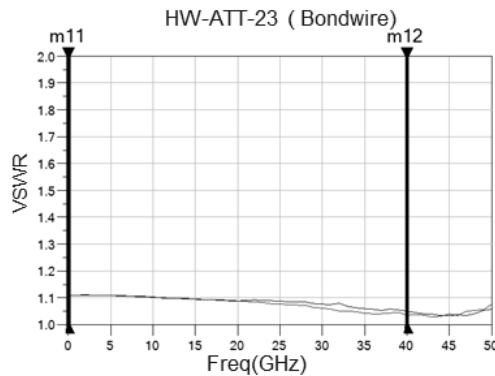
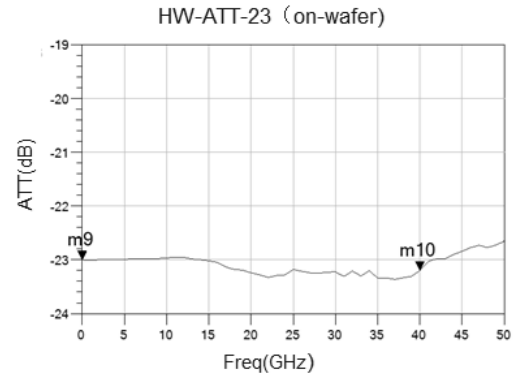
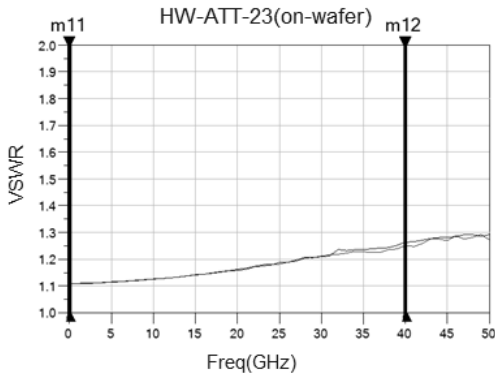
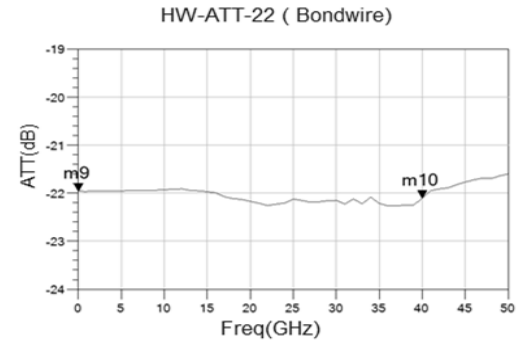
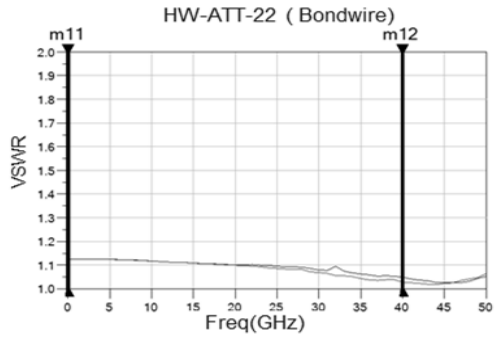
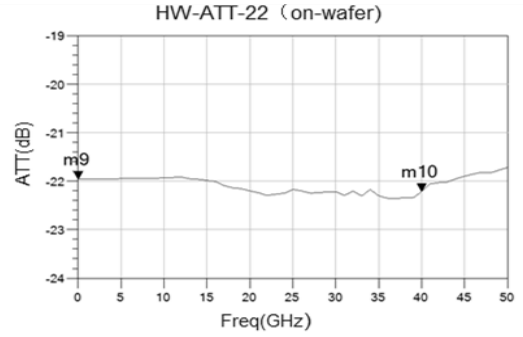
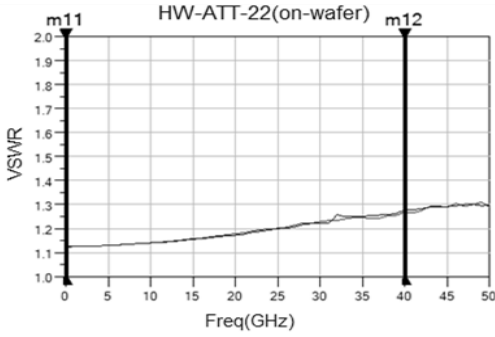


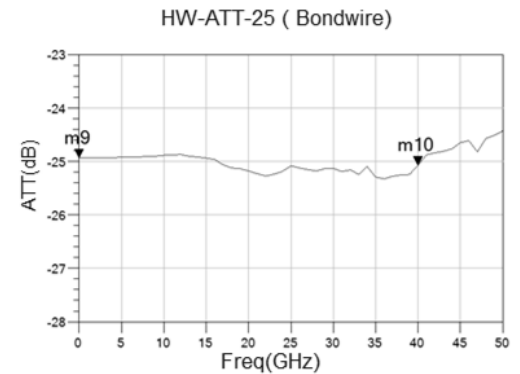
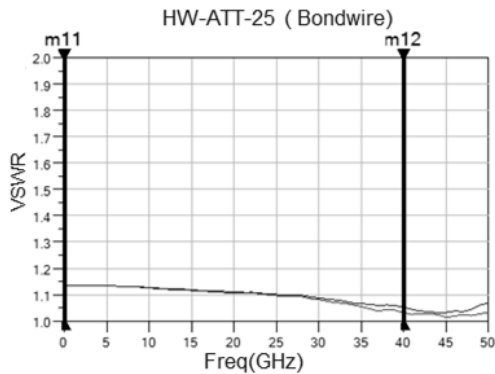
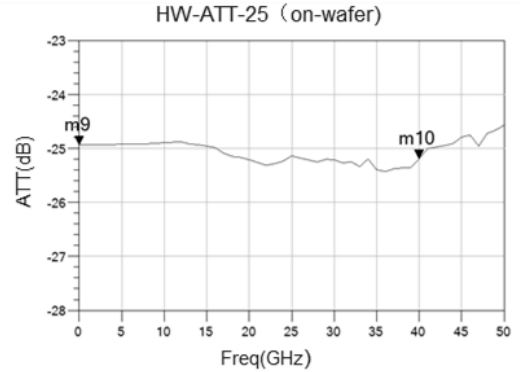
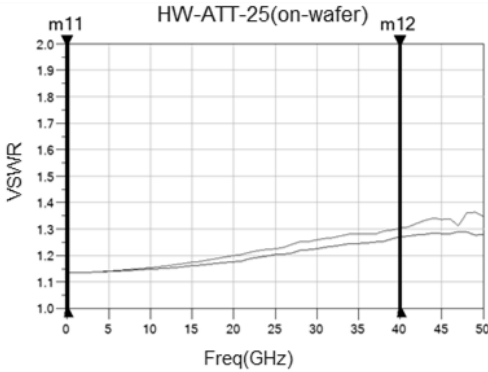
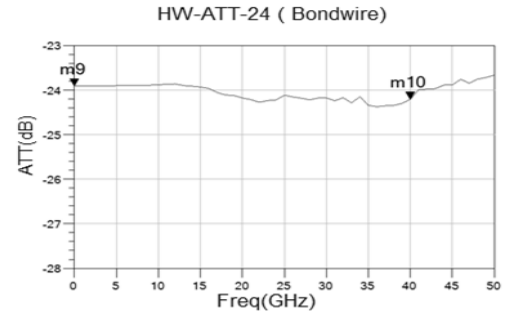
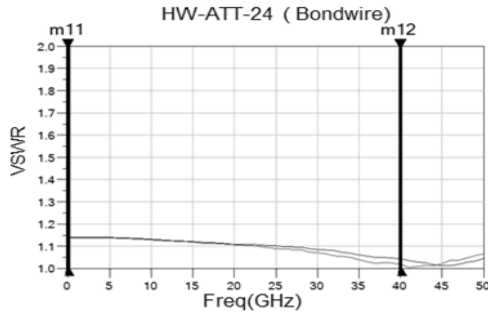
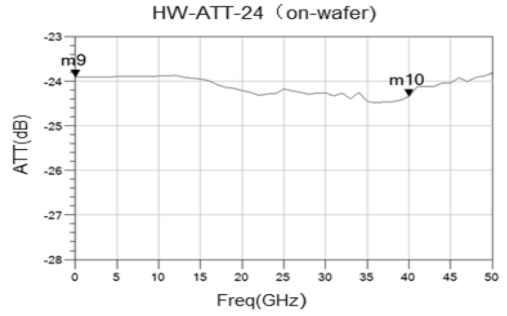
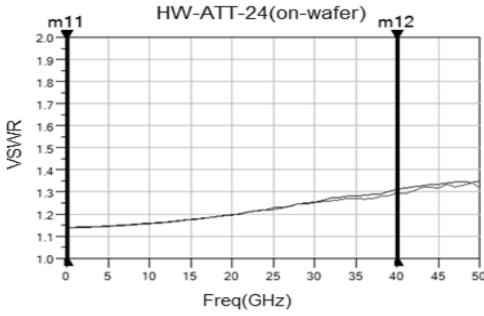


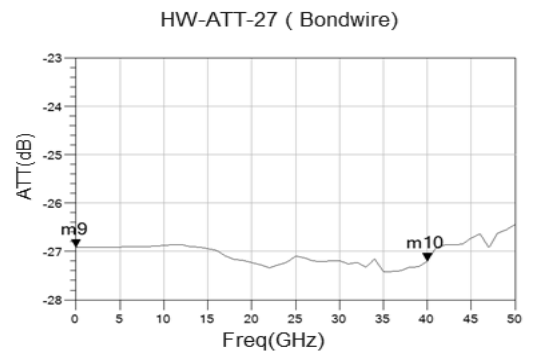
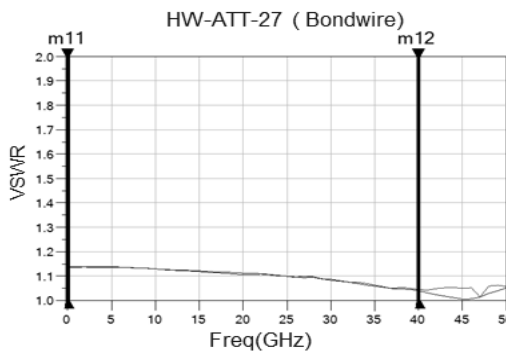
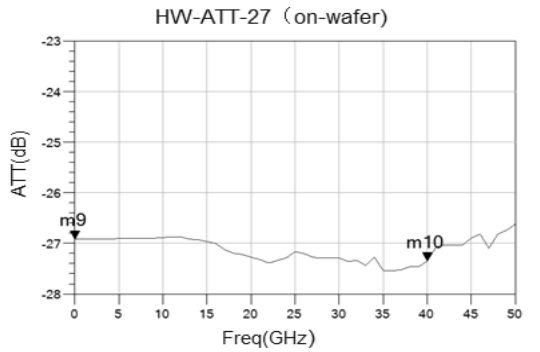
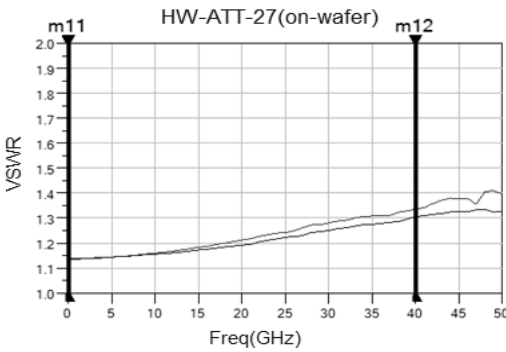
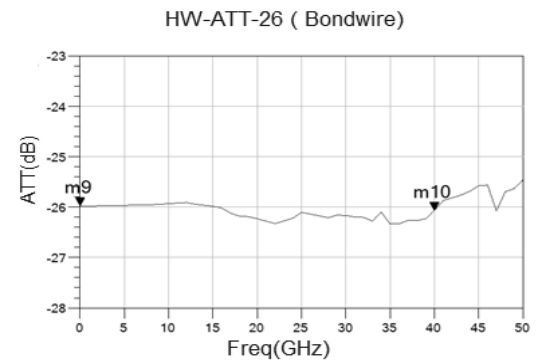
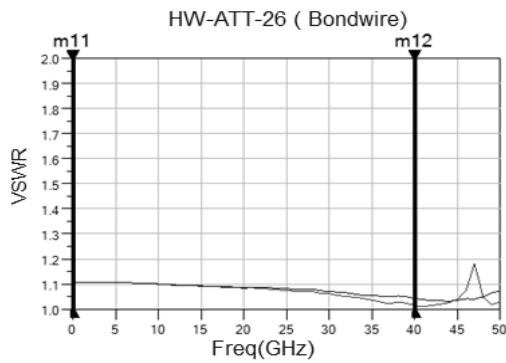
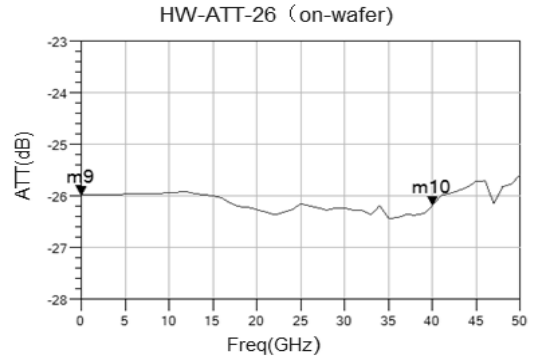
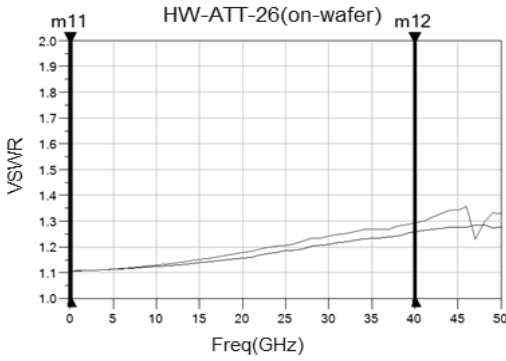


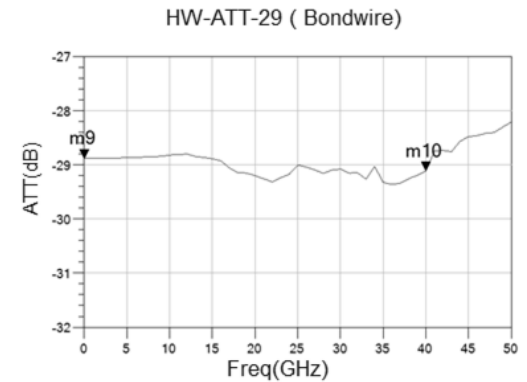
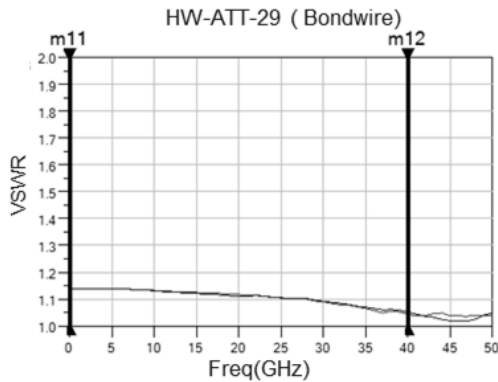
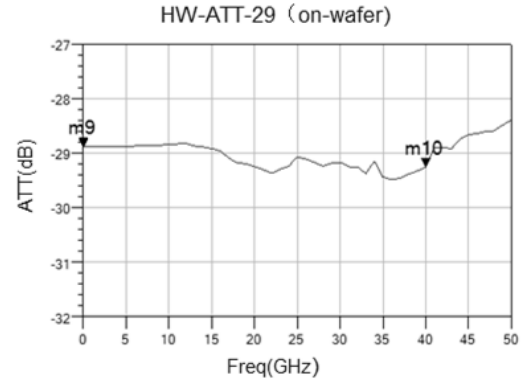
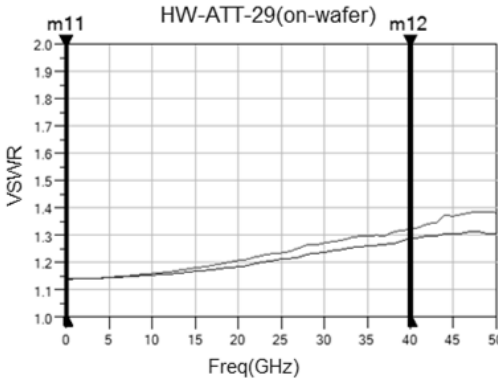
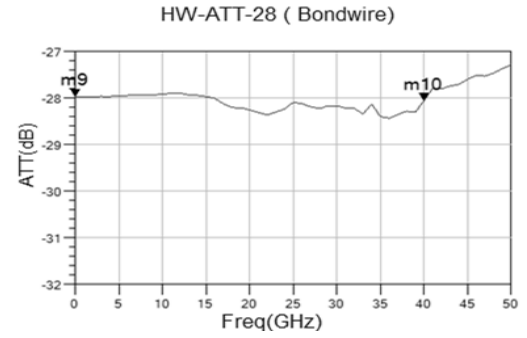
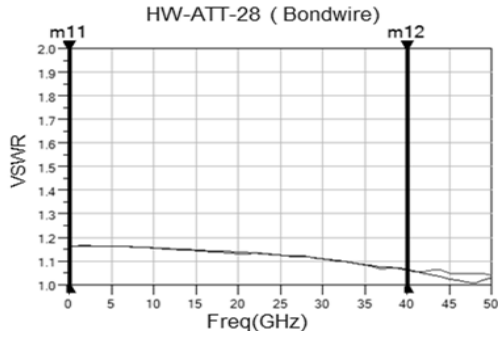
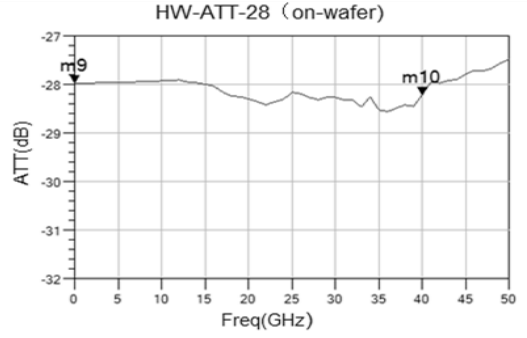
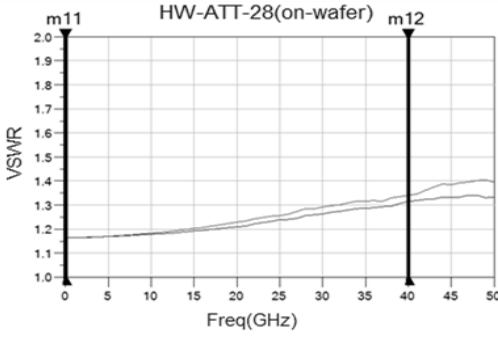


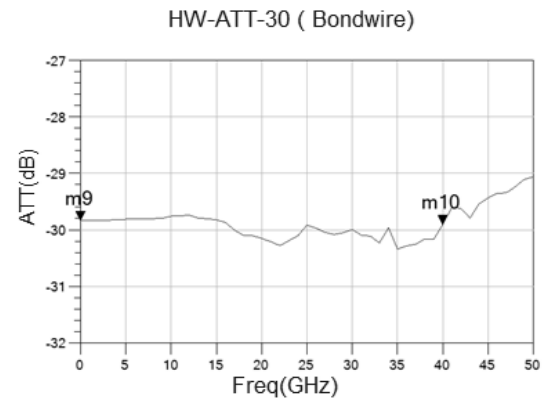
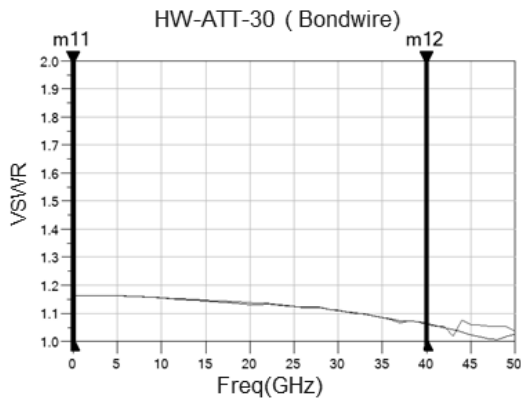
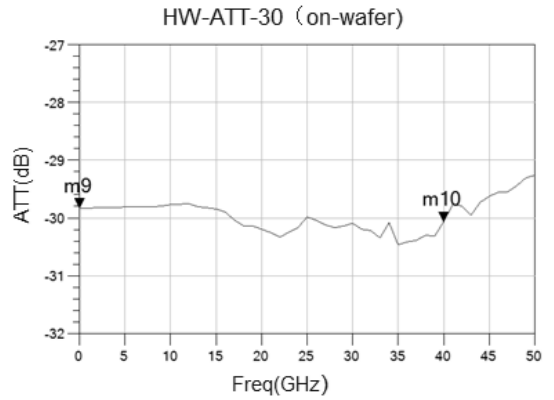
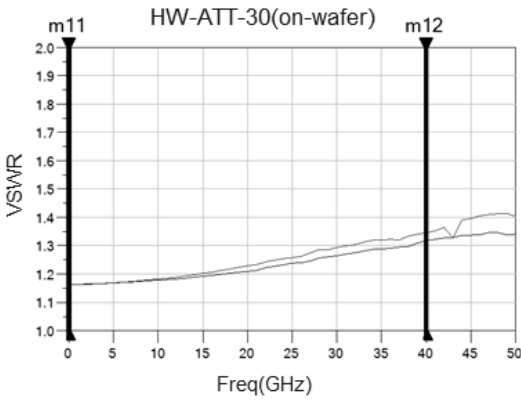






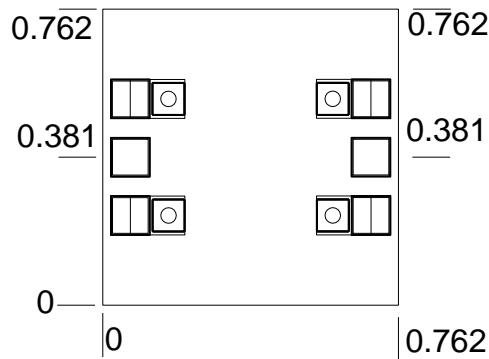




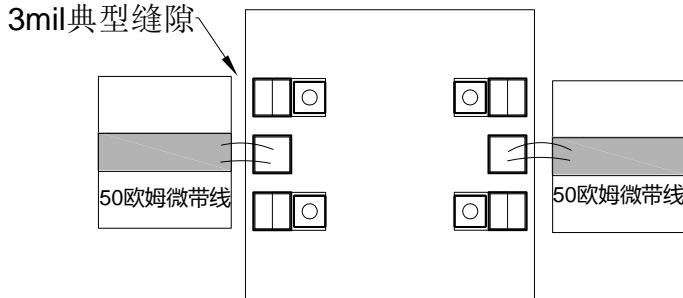


07
衰
减
器

实物尺寸图：(单位 mm)



实物建议装配图：



使用说明：

存储：芯片必须放置于具有静电防护功能的容器中，并在氮气环境下保存。

清洁处理：裸芯片必须在净化环境中操作使用，禁止采用液态清洁剂对芯片进行清洁处理。

静电防护：请严格遵守 ESD 防护要求，避免器件静电损伤。

常规操作：拿取芯片请使用真空夹头或精密尖头镊子。操作过程中要避免工具或手指触碰到芯片表面。

装架操作：芯片安装可采用 AuSn 焊料共晶焊接或导电胶粘接工艺。安装面必须清洁平整。

键合操作：输入输出各用 2 根（建议直径 25um 金丝）键合线，键合线长度小于 250um 最优。建议采用尽可能小的超声波能量。键合时起始于芯片上的压点，终止于封装（或基板）。