

ADIC957M

V0

性能特点

- 射频工作频率: 2 - 18 GHz
- 增益: ≥ 60 dB
- 增益平坦度: ≤ 6 dB
- 噪声系数: 4 dB
- 饱和输出功率: 17 dBm
- 幅度位数: 2 bit
- 幅度步进: 16 dB
- 对数检波动态范围: ≥ 40 dB
- 中频工作频率: 10 - 500 MHz
- 增益: ≥ 50 dB
- 增益平坦度: ≤ 6 dB
- 噪声系数: 6 dB
- 饱和输出功率: 20 dBm
- 供电电压: 12 V @ 700 mA
- 模块尺寸: 100 × 82 × 17 mm

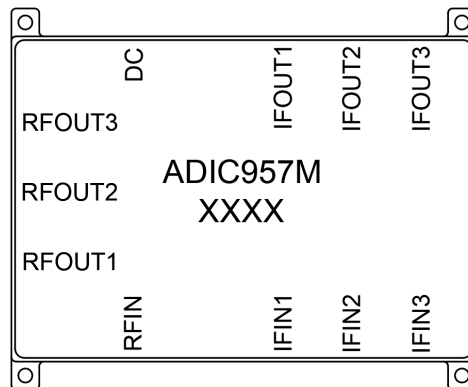
产品简介

ADIC957M是一款同时集高增益射频链路和中频链路的高集成前端模块。射频链路集成放大器、衰减器和功分器等, 实现一路输入, 三路功分输出; 工作频段覆盖2-18 GHz, 最高增益大于60 dB, 幅度控制范围最高可以达到48 dB。

模块同时集成三个频率覆盖10 MHz到500 MHz的中频链路, 带外在高频高达18 GHz范围内均具有良好的带外抑制能力, 中频链路的最高增益大于50 dB。

ADIC957M模块具有良好的增益平坦度等性能, 可应用于相控阵雷达和T/R组件。

引脚定义



引脚符号	引脚描述
DC	加电引脚端
RFIN	射频输入端
RFOUT1	射频输出端1
RFOUT2	射频输出端2
RFOUT3	射频输出端3
IFIN1	中频输入端1
IFIN2	中频输入端2
IFIN3	中频输入端3
IFOUT1	中频输出端1
IFOUT2	中频输出端2
IFOUT3	中频输出端3

极限参数

最大工作电压	12 V
工作环境温度	-45 °C ~ +85 °C
储存温度	-55 °C ~ +150 °C



关注公众号



ELECTROSTATIC SENSITIVE DEVICE
OBSERVE HANDLING PRECAUTIONS

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射频链路特性 (T=25℃, 50 Ω system)

指标	最小值	典型值	最大值	单位
频率范围	2	-	18	GHz
增益	60	-	-	dB
增益平坦度	-	-	6	dB
噪声系数	-	4	-	dB
饱和输出功率	-	17	-	dBm
对数检波动态范围	-	40	-	dB

中频链路特性 (T = 25℃, 50 Ω system)

指标	最小值	典型值	最大值	单位
频率范围	6	-	500	MHz
增益	40	-	-	dB
噪声系数	-	6	-	dB
饱和输出功率	-	20	-	dBm

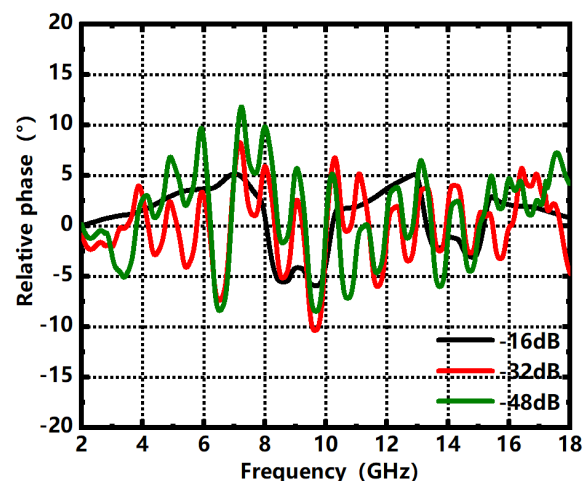
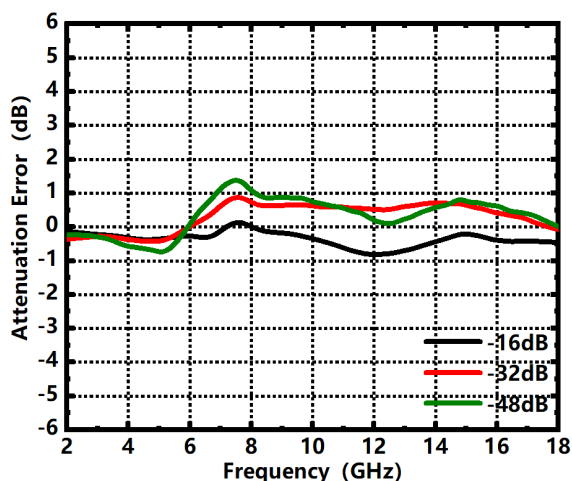
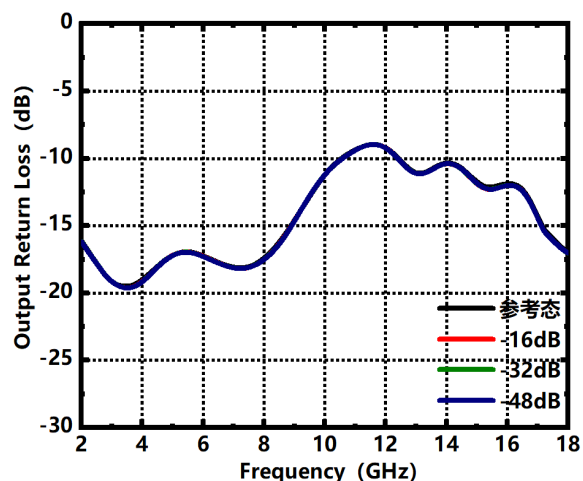
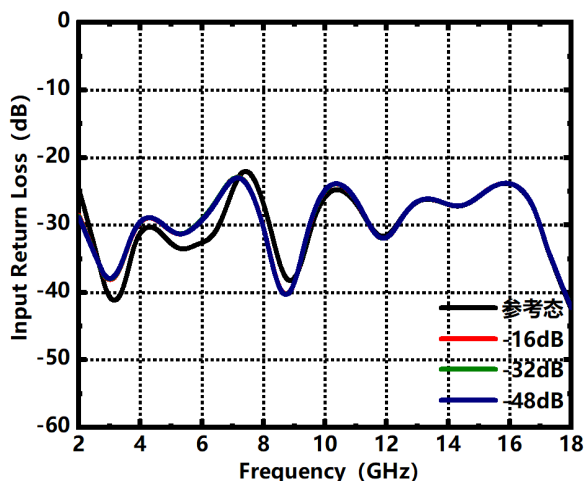
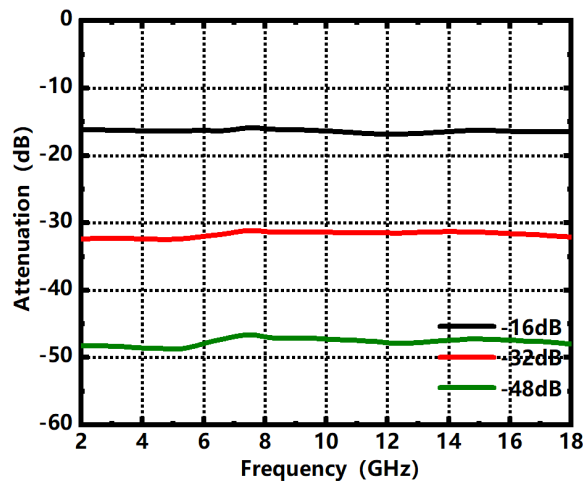
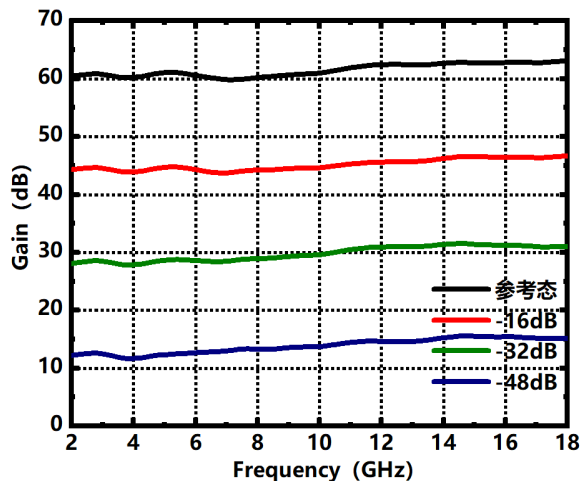
直流供电特性

指标	最小值	典型值	最大值	单位
工作电压	-	12	-	V
静态电流	-	700	-	mA

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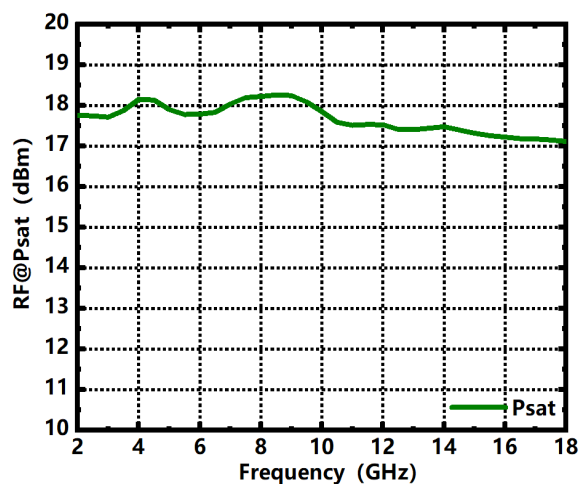
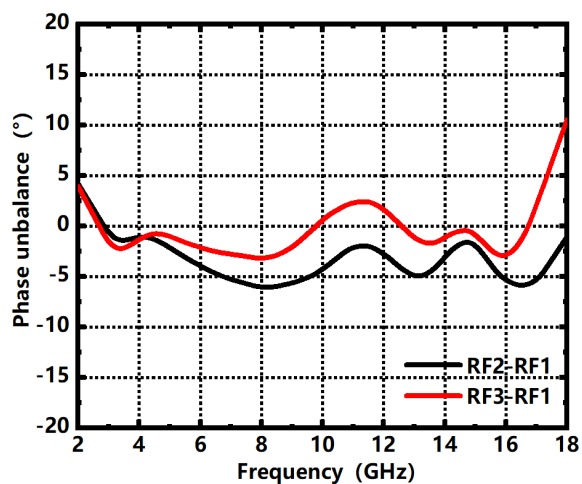
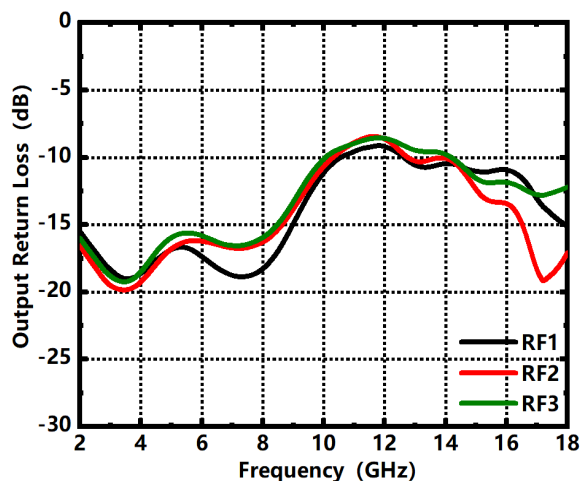
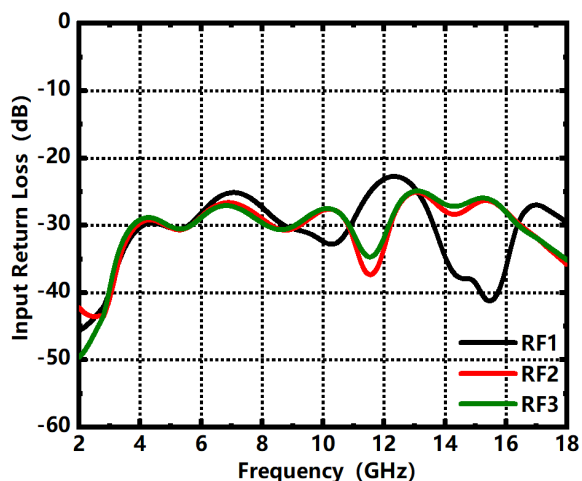
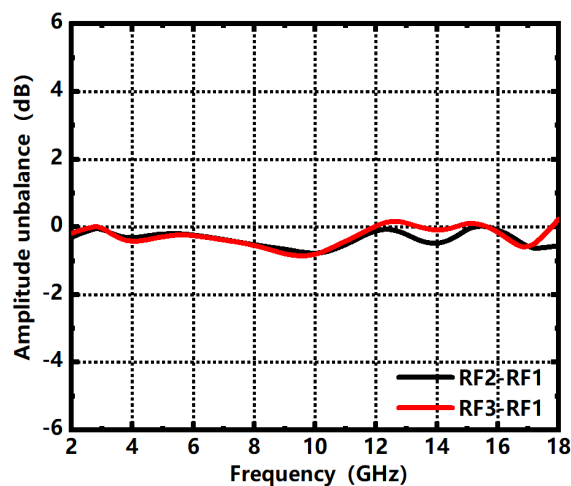
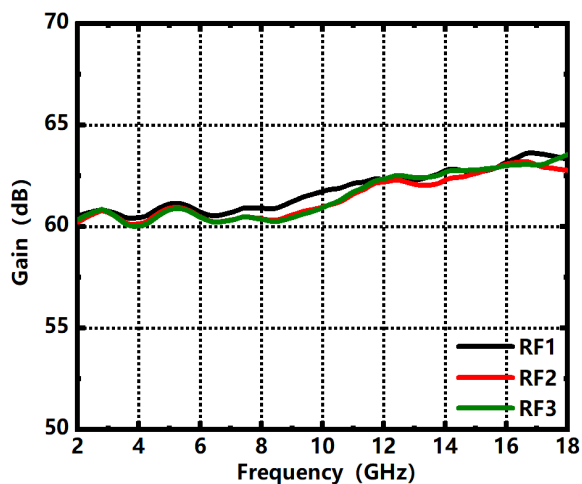
射频链路典型测试曲线 (T=25°C, 50 Ω system)



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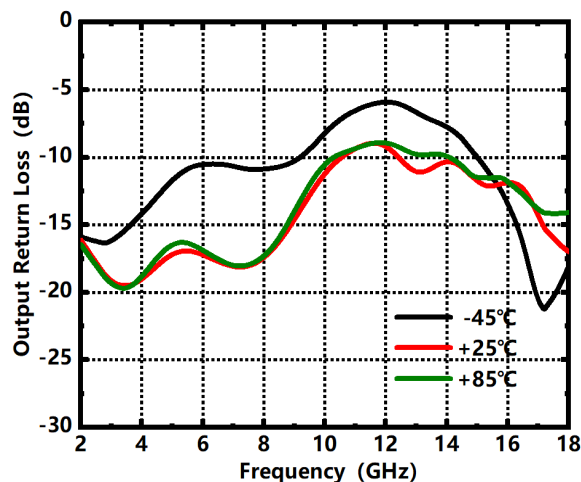
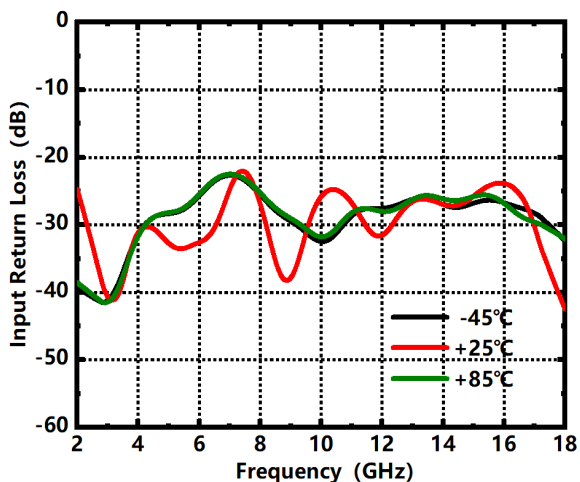
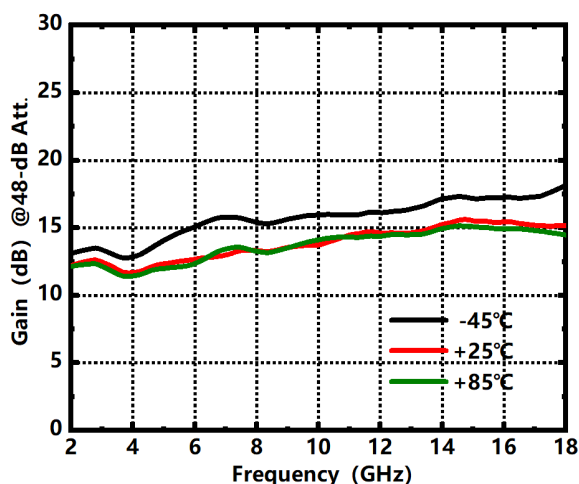
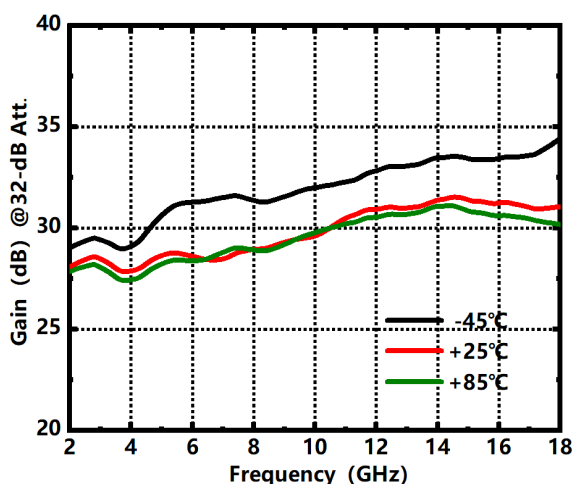
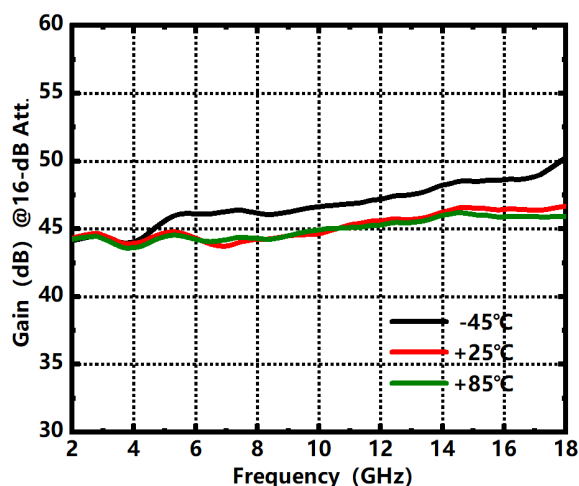
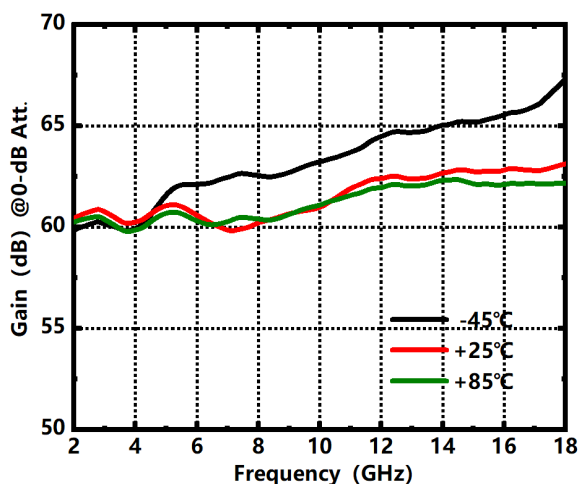
射频链路典型测试曲线 (T=25°C, 50 Ω system)



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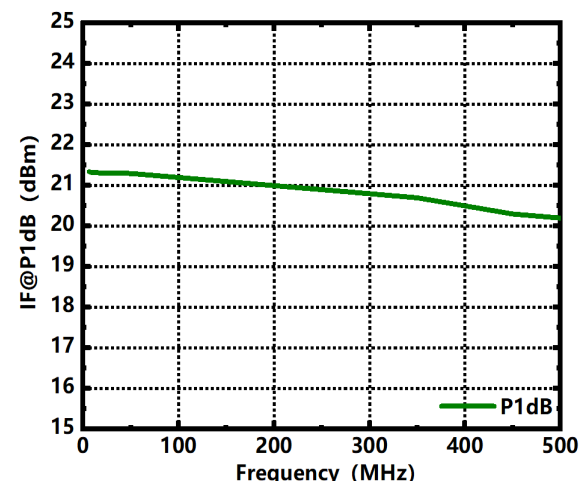
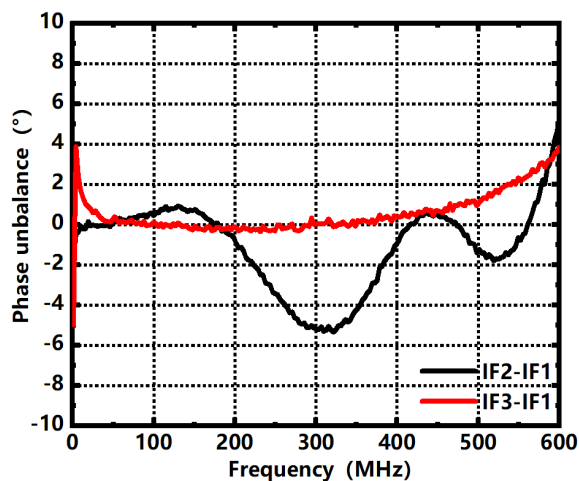
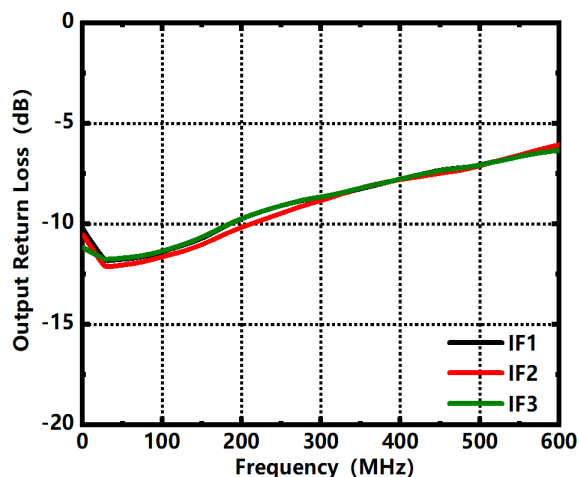
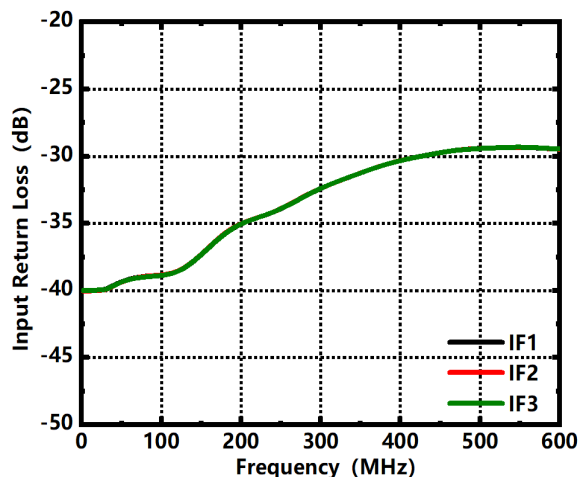
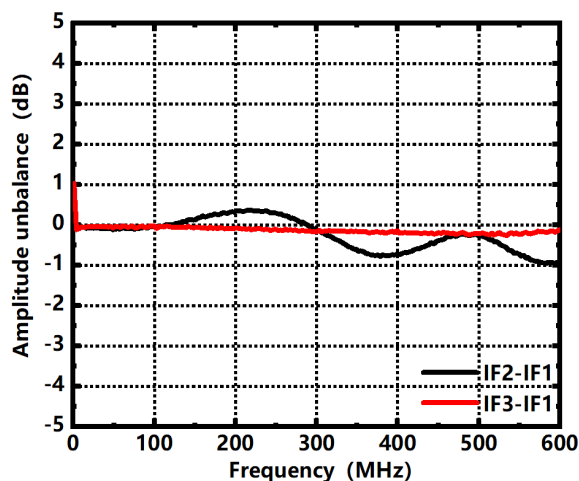
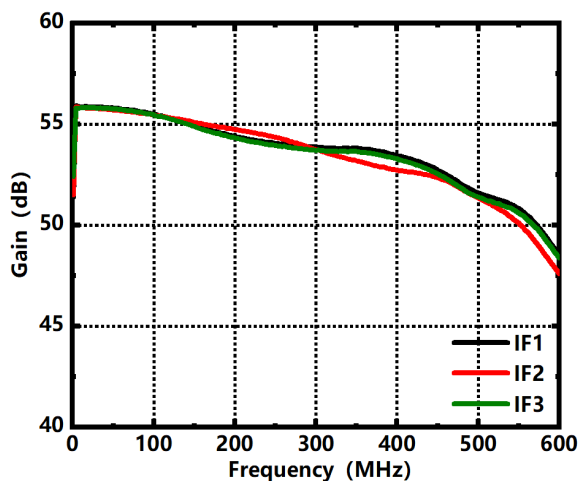
射频链路高低温测试曲线



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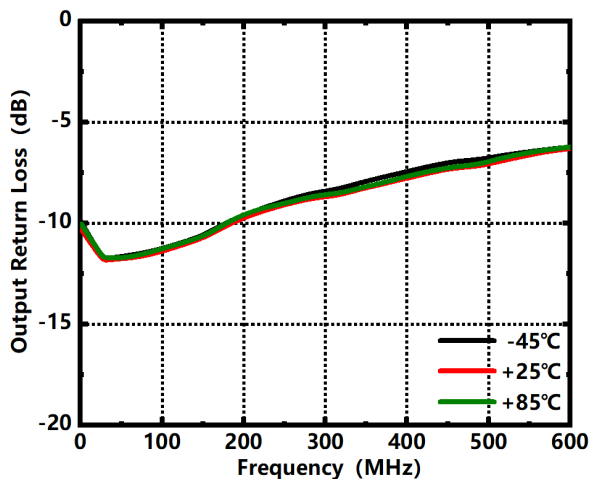
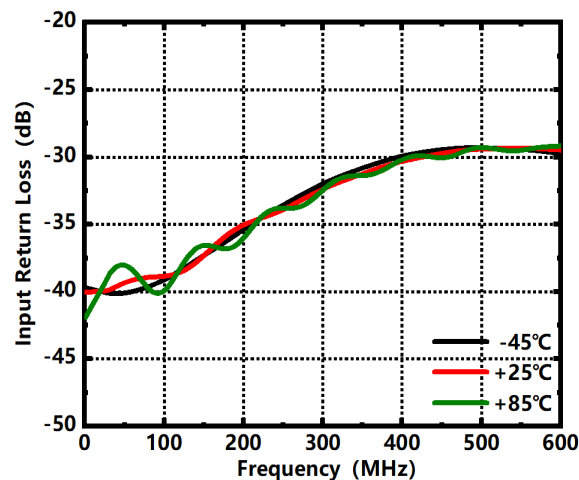
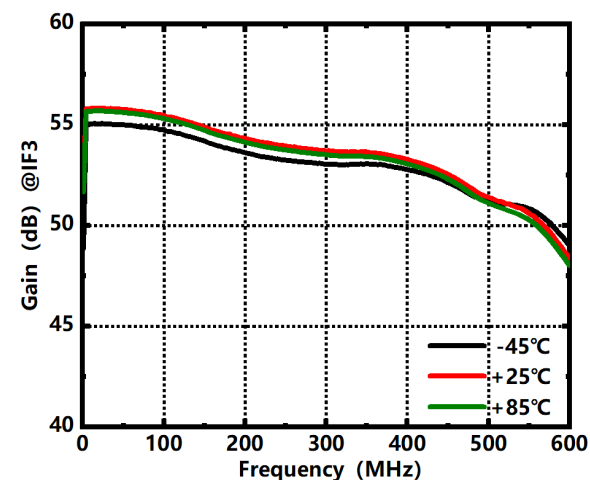
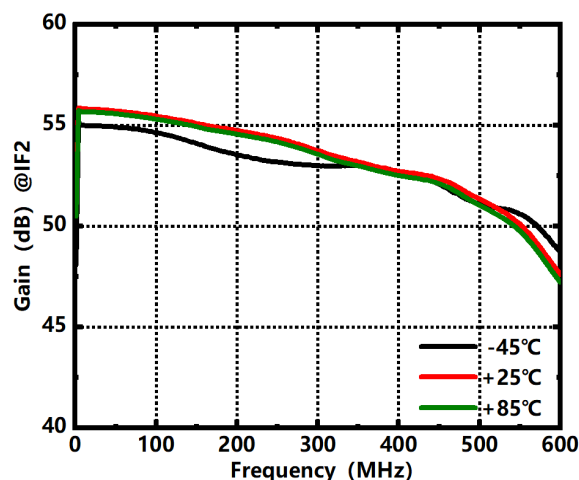
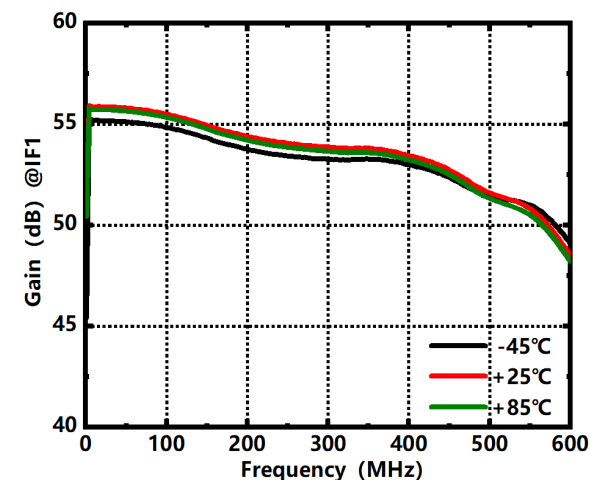
中频链路典型测试曲线 (T=25°C, 50 Ω system)



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中频链路高低温测试曲线



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外形尺寸

