

ADIC352DF23

V0

性能特点

- RF频率: 3.3 - 3.8 GHz
- LO 频率: 1.7 - 2.3 / 2.01 - 2.61 GHz
- IF频率: 1.5 - 1.6 / 1.19 - 1.29 GHz
- 变频损耗: -6 dB
- 1dB压缩点输入功率: 14 dBm
- 单电压供电: 3 V / 14 mA
- 可上下变频
- 8-Pin 2 mm × 3 mm × 0.75 mm DFN

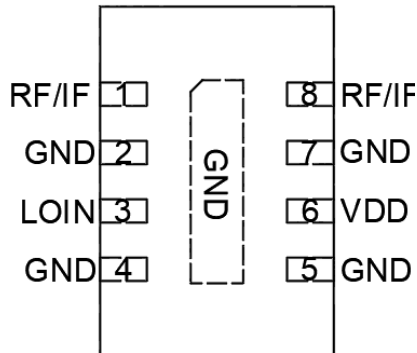
产品简介

ADIC352DF23是一款高线性阻性混频器, 封装采用2 mm × 3 mm 8-Pin DFN leadless 封装。射频频率范围覆盖3.3 - 3.8 GHz, IF频率范围1.5 - 1.6 / 1.19 - 1.29 GHz, 可实现上下变频, 变频损耗 -6 dB, 1dB压缩点输入功率 14 dBm。可广泛应用于RF/微波电路、测试测量、军事和航天、仪表仪器等。

极限参数

工作温度	-55 °C ~ +85 °C
储存温度	-65 °C ~ +150 °C
静电防护等级(ESD)	Class 1B (HBM)

引脚定义



俯视透视图

引脚编号	符号	功能描述
1, 8	RF/IF	射频和中频输入/输出端口
3	LOIN	本振输入端
6	VDD	3 V
其它	GND	接地



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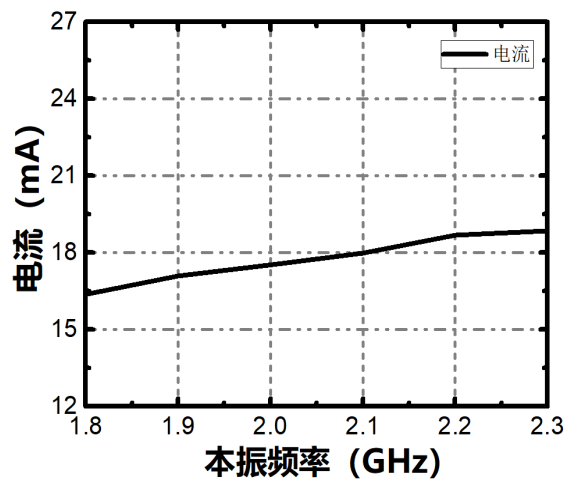
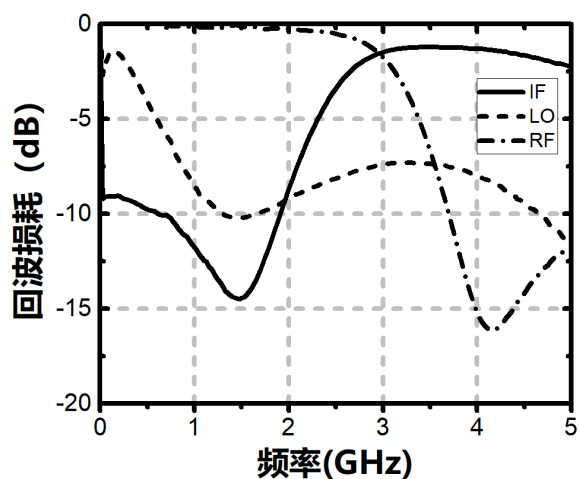
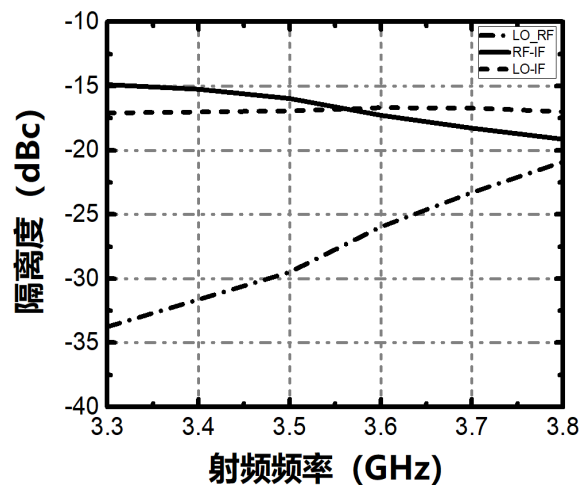
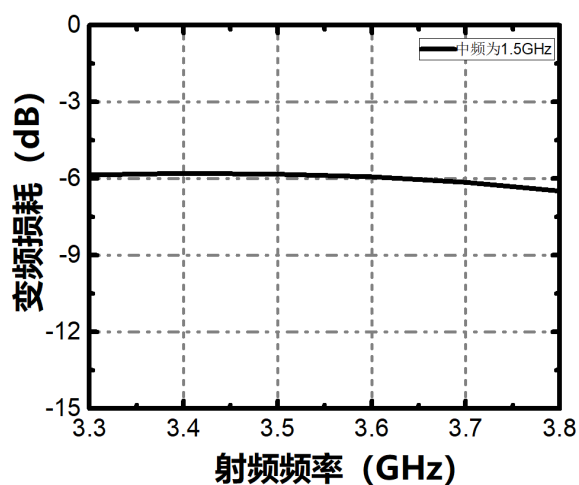
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电性能表 (T = 25 °C)

指标	最小值	典型值	最大值	单位
RF频率范围	-	3.3 - 3.8	-	GHz
LO频率范围	-	1.7 - 2.3 / 2.01 - 2.06	-	GHz
IF频率范围	-	1.5 - 1.6 / 1.19 - 1.29	-	GHz
变频损耗	-	-6	-	dB
回波损耗	-	-10	-	dB
1dB压缩点输出功率	-	14	-	dBm
电流	-	14	-	mA

典型测试曲线

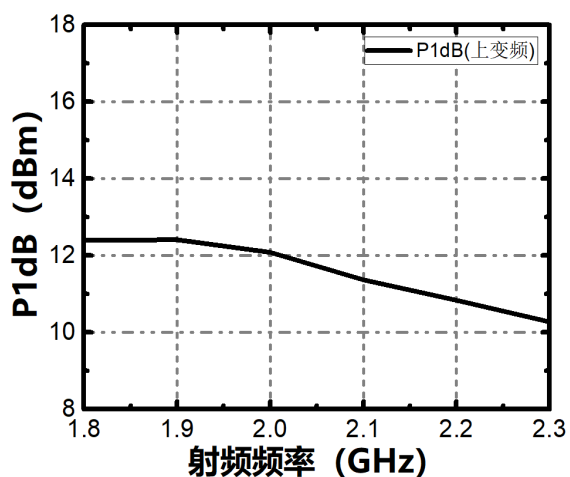
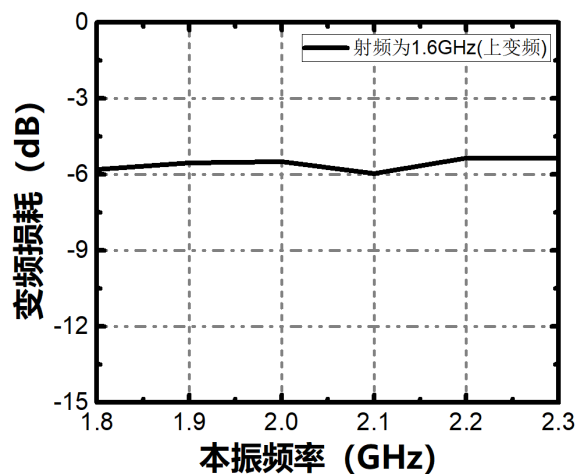
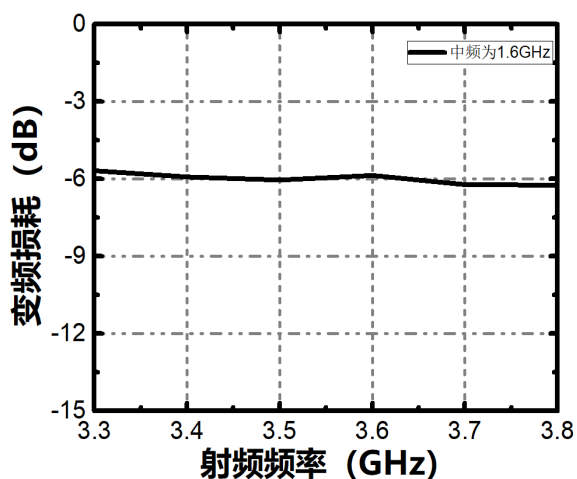
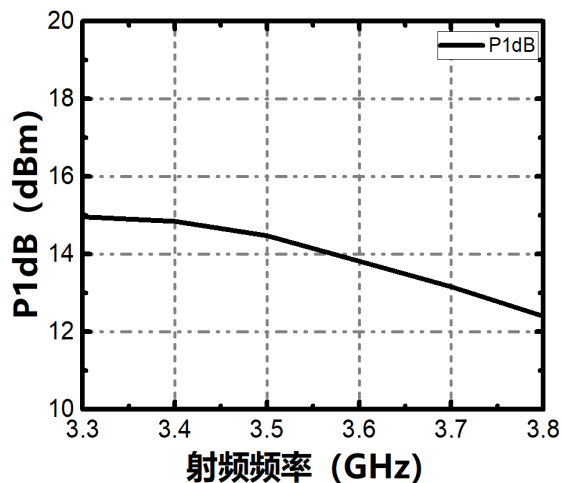
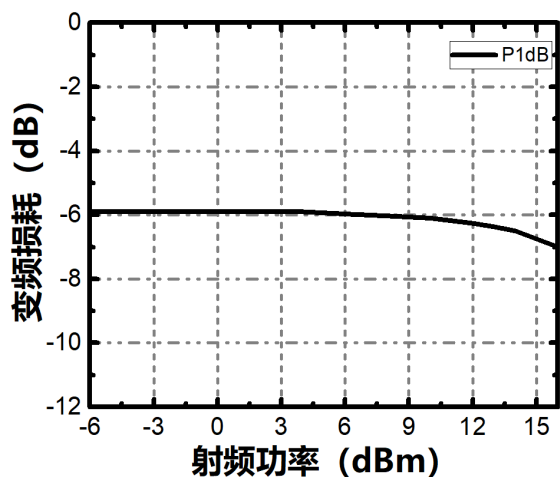
RF: 3.3 - 3.8 GHz,, LO: 1.7 - 2.3 GHz, IF: 1.5 - 1.6 GHz, RF Power = 0 dBm, LO Power = 6 dBm, VDD = 3 V。



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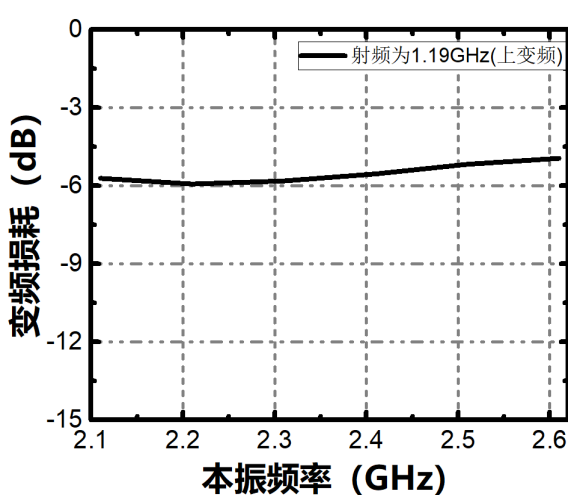
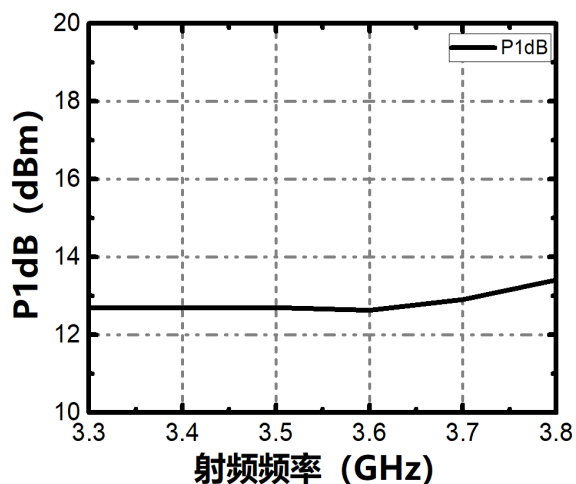
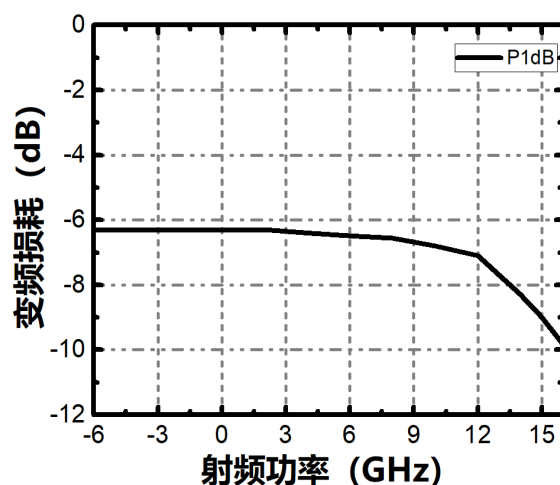
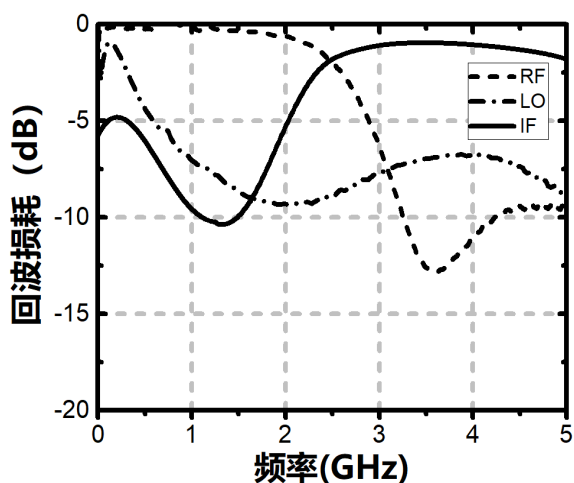
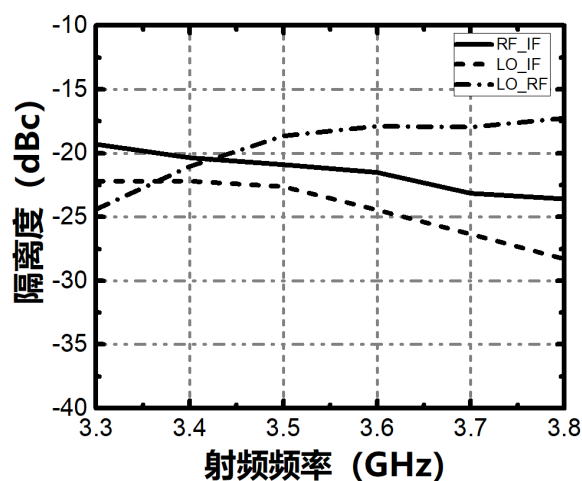
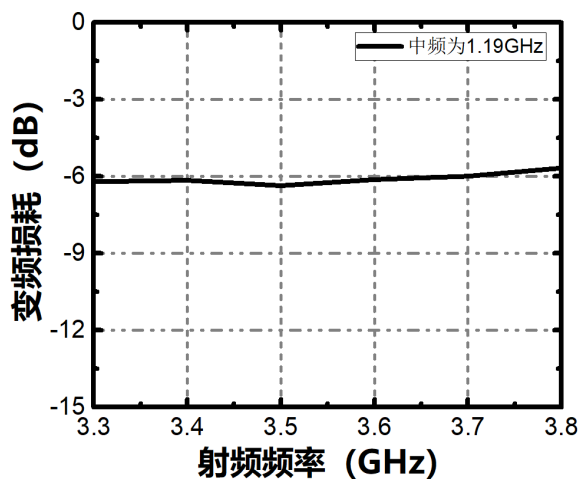
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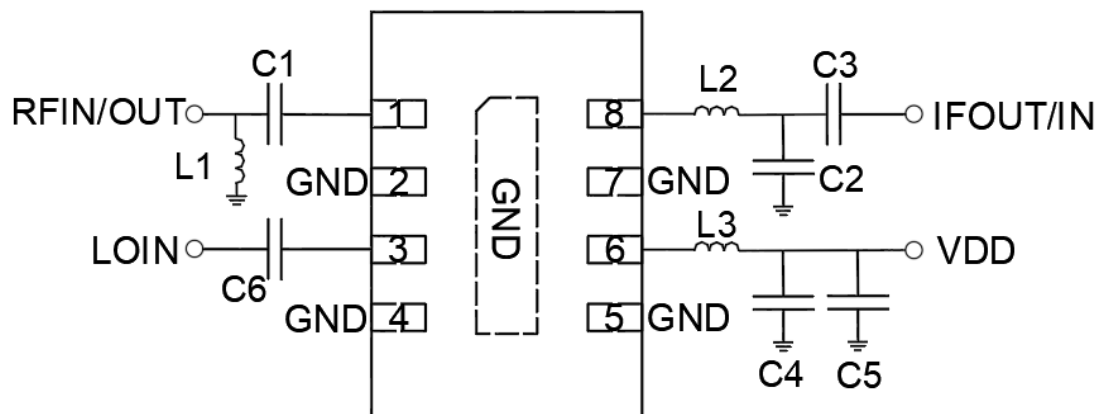
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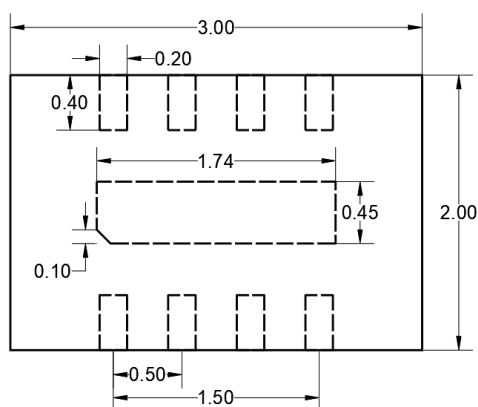
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应用电路



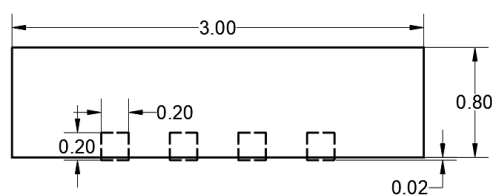
元件名称	中频为1.5 - 1.6 GHz	中频为1.19 - 1.29 GHz	单位	备注
C1	0.6	0.7	pF	0402
C2	2.1	2.7	pF	0402
C3	1500	1500	pF	0402
C4	150	150	pF	0402
C5	4.7	4.7	pF	0402
C6	120	120	pF	0402
L1	2.4	1.7	nH	0402
L2	2.5	3.5	nH	0402
L3	36	27	nH	0402

外形尺寸



俯视透视图

单位: mm



侧视图

建议引脚PCB

