

Features

- Frequency: 6~18GHz
- Insertion Loss: 0.7dB
- Input/Output VSWR: $\leq 1.5:1$
- Die Size: 1.17mm×1.21mm×0.1mm

Typical Applications

- EW
- Cellular Infrastructure
- SATCOM
- Beamforming Modules
- Test Equipment and Sensors

General Description

SAC3802A is a GaAs MMIC 2-Way 0° power divider which operates between 6~18GHz with 1dB of insertion loss and 1.2 : 1 of VSWR .

The chip offers full passivation for increased reliability and moisture protection.

Electrical Performance ($T_A=25^\circ\text{C}$, $Z_0=50\Omega$)

Parameter	Symbol	Condition's	Min.	Typ.	Max.	Units
Frequency Range	f	$Z_{in}=Z_{out}=50\Omega$ $T_A=+25^\circ\text{C}$	6	—	18	GHz
Insertion Loss	IL		—	-0.7	-1	dB
Amplitude Unbalance	IP		—	± 0.2	—	dB
RFC	VSWR		—	1.3	1.5	:1
RF1,RF2			—	1.2	1.4	:1
Isolation	ISO		-15	-25	—	dB

Absolute Maximum Ratings

Maximum Input Power	+22dBm	Operating Temperature	-55°C~+85°C
Channel temperature	150°C	Storage Temperature	-65°C~+150°C

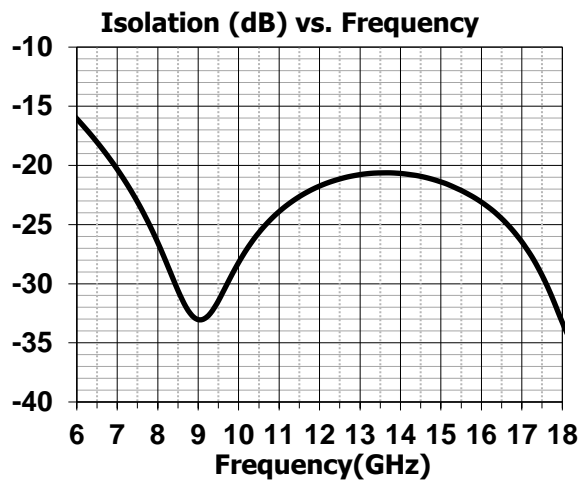
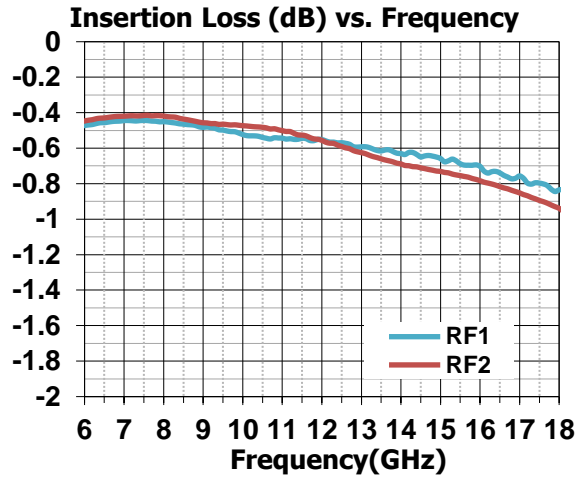
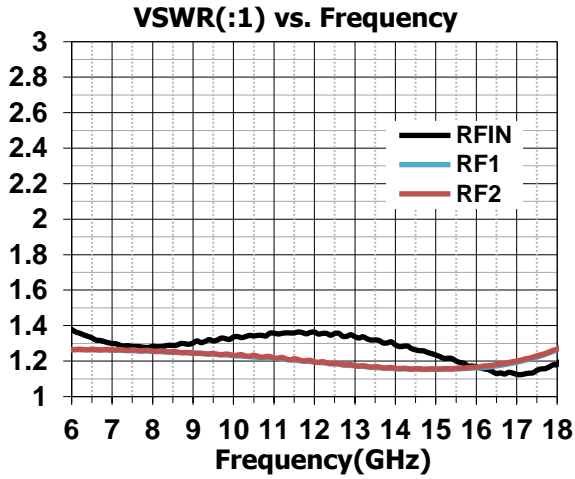
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GaAs MMIC Power Divider
6~18GHz

Rev 1.0

Typical Performance Curve



SuperApex, LLC

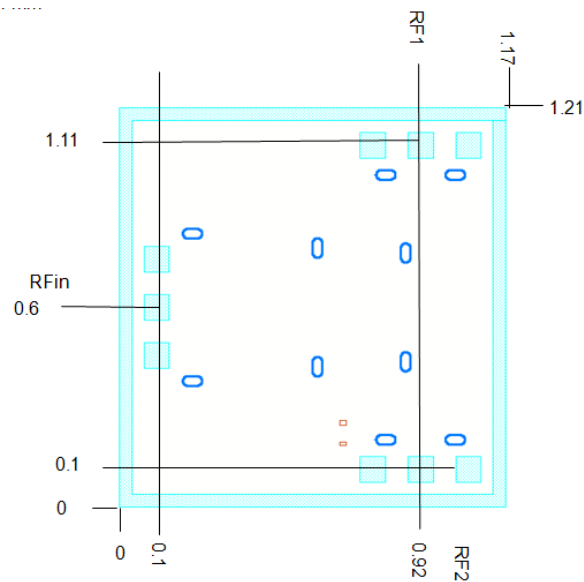
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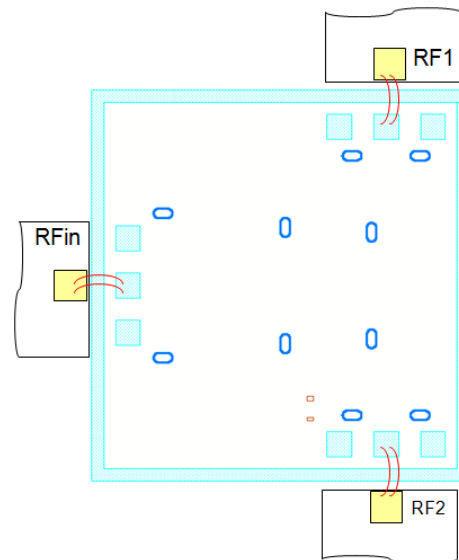
GaAs MMIC Power Divider
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Die Outline
(All dimensions in mm)



Assembly Diagram



Attention:

GaAs MMIC devices are susceptible to damage from Electrostatic Discharge. Proper precautions should be observed during handling, assembly and test.