

Features

- Frequency: 2~20GHz
- Insertion Loss: $\leq 1.2\text{dB}@18\text{GHz}$
- Input/Output VSWR: 1.3: 1
- Die Size: 2.18mm×2.07mm×0.1mm

Typical Applications

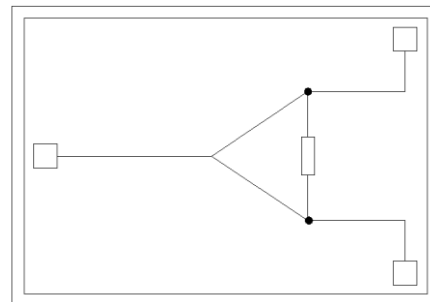
- EW
- Cellular Infrastructure
- SATCOM
- Test Equipment and Sensors

General Description

SAC3801A is a GaAs MMIC 2-way 0° power divider which operates between 2GHz~20GHz with insertion loss 1.2dB and VSWR 1.3.

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

Functional Diagram



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} =50Ω T _A =+25°C	2	—	20	GHz
Insertion Loss	IL		—	-1	—	dB
Amplitude Unbalance	IP		—	±1	—	dB
RF1 VSWR	VSWR		—	1.3	—	:1
RF2 VSWR			—	1.3	—	:1
RFC VSWR			—	1.3	—	:1
Isolation	ISO		—	-20	—	dB

Absolute Maximum Ratings

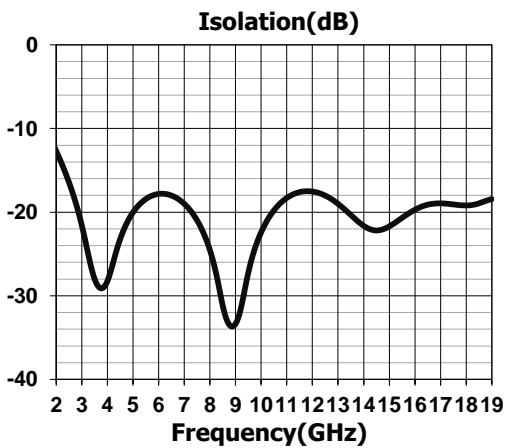
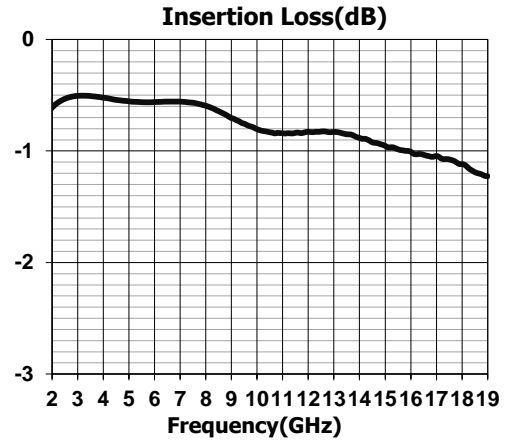
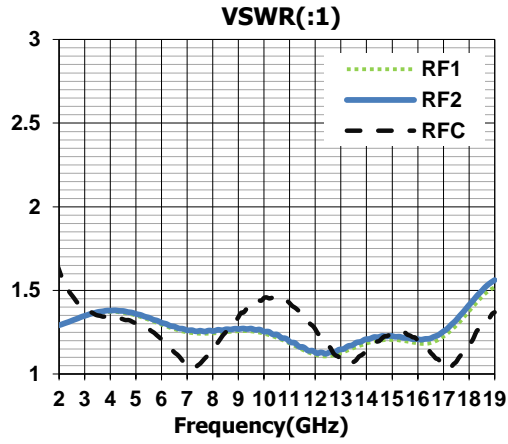
Maximum Input Power	+30dBm	Operating Temperature	-55°C~+85°C
Channel temperature	150°C	Storage Temperature	-65°C~+150°C

SAC3801A

GaAs MMIC Power Divider
2~20GHz

Rev 1.1

Typical Performance Curve

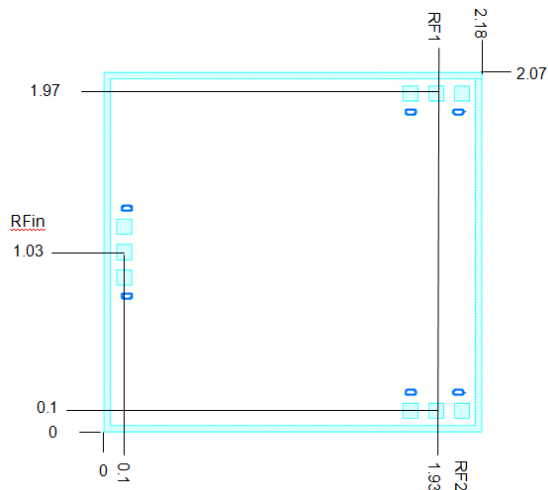


SAC3801A

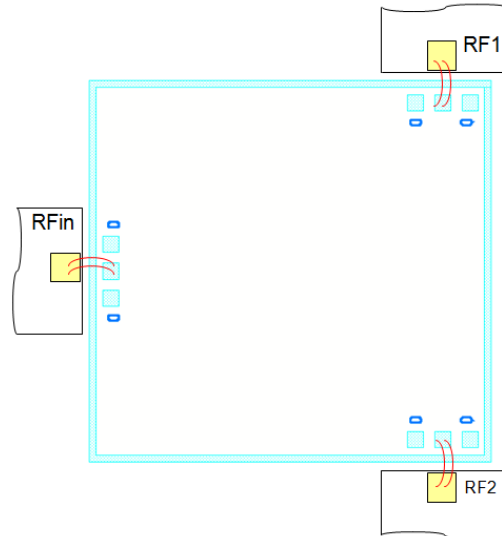
GaAs MMIC Power Divider
2~20GHz

Rev 1.1

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.