SAC3807

GaAs MMIC Power Divider
8~12GHz

Rev 2.1

Features

- Frequency：8~12GHz
- Insertion Loss：≤0.8dB@12GHz
- Input/Output VSWR：≤1.3:1
- Die Size：1.0mm×1.25mm×0.1mm

Typical Applications

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

General Description

SAC3807 is a GaAs MMIC 2-Way 0° power divider which operates between 8~12GHz,with insertion loss 0.8dB and output VSWR 1.3:1.

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

Electrical Performance (T_A=25℃ , Z_0=50Ω)

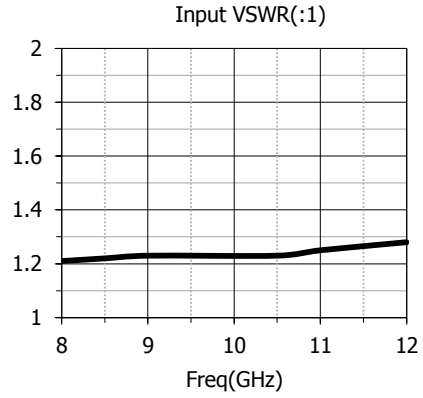
Parameter	Symbol	Condition's	Min.	Typ.	Max.	Units
Frequency Range	f	Zin=Zout=50Ω T_A=+25℃	8	—	12	GHz
Insertion Loss	IL		—	—	-0.9	dB
Amplitude Unbalance	IP		—	±0.05	—	dB
Input VSWR	VSWR		—	—	1.3	:1
Output VSWR			—	—	1.3	:1
Isolation	ISO		-23	—	—	dB

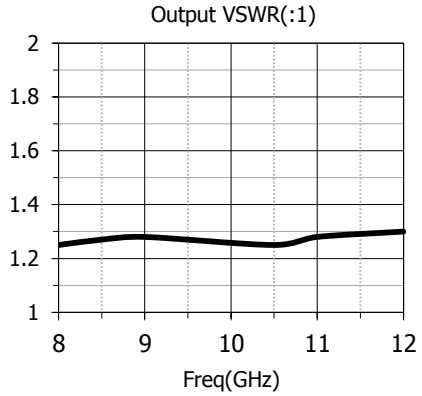
Absolute Maximum Ratings

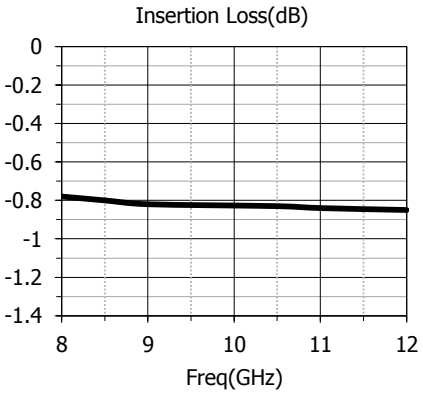
Maximum Input Power	+22dBm	Operating Temperature	-55℃～+85℃
Channel temperature	150℃	Storage Temperature	-65℃～+150℃

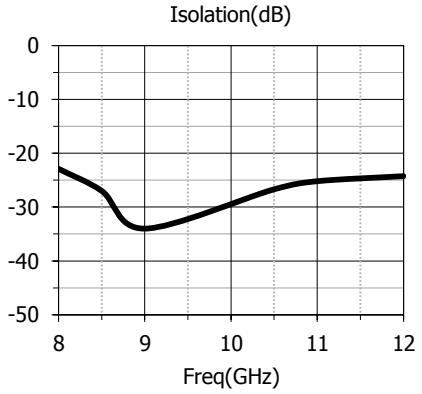
SuperApex Corporation
Address: 1580 S. Milwaukee Ave. Suite 405, Libertyville, IL 60048, USA
Tel:1-847-573-9866, 1-847-505-8319
E-mail: sales@superapexco.com
Website: www.superapexco.com

Typical Performance Curve

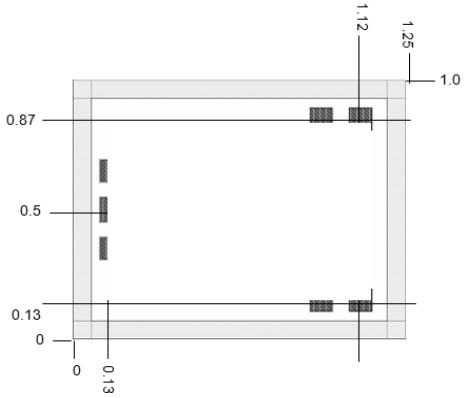




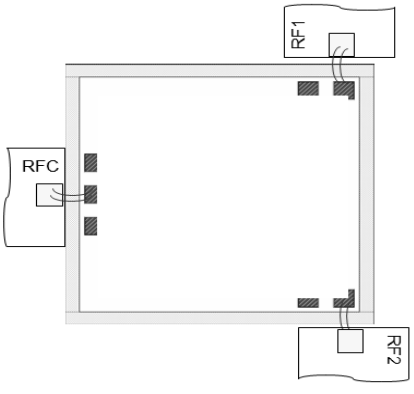




Die Outline
(all dimensions in mm)



Assembly Drawing



Attention:

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