

SAC3808

GaAs MMIC Power Divider
2~6GHz

Rev 2.1

Features

- Frequency: 2~6GHz
- Insertion Loss: 0.7dB@6GHz
- Input/Output VSWR: 1.4:1
- Die Size: 1.6mm×1.24mm×0.1mm

Typical Applications

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

General Description

SAC3808 is a GaAs MMIC 2-Way 0° power divider which operates between 2~6GHz with insertion loss 0.7dB and VSWR 1.4:1.

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	$Z_{in}=Z_{out}=50\Omega$ $T_A=+25^{\circ}\text{C}$	2	—	6	GHz
Insertion Loss	IL		—	—	-0.7	dB
Amplitude Unbalance	IP		—	± 0.07	—	dB
Input VSWR	VSWR		—	—	1.4	:1
Output VSWR			—	—	1.3	:1
Isolation	ISO		-13	—	—	dB

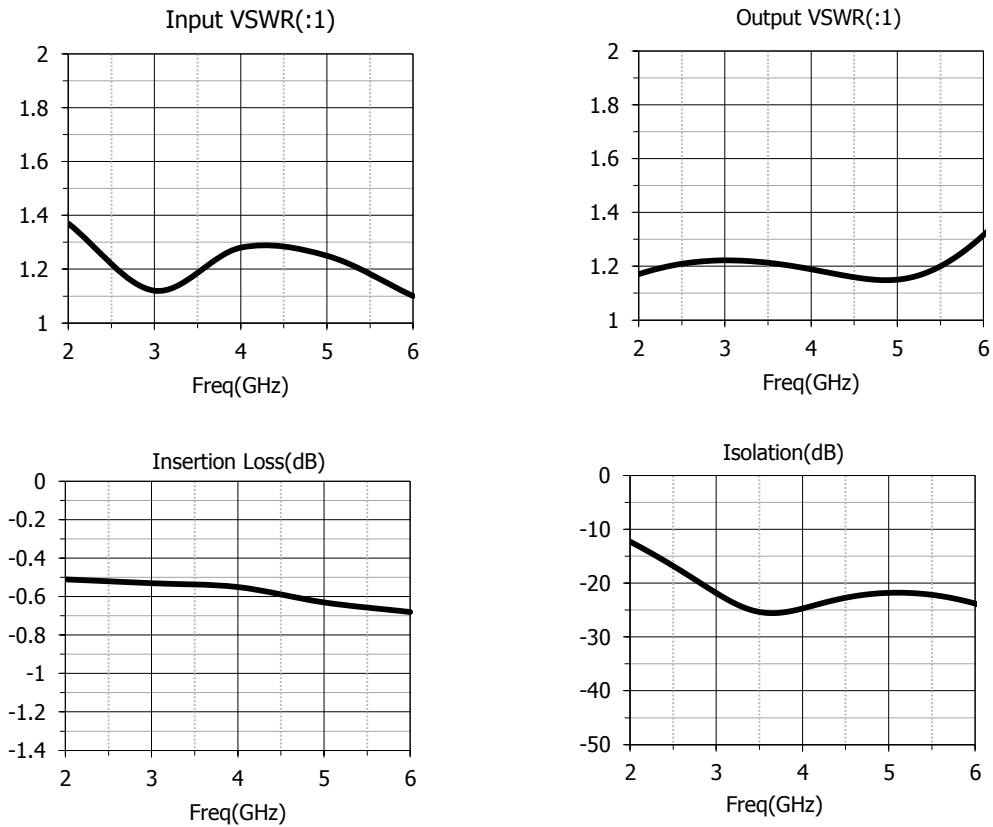
Absolute Maximum Ratings

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

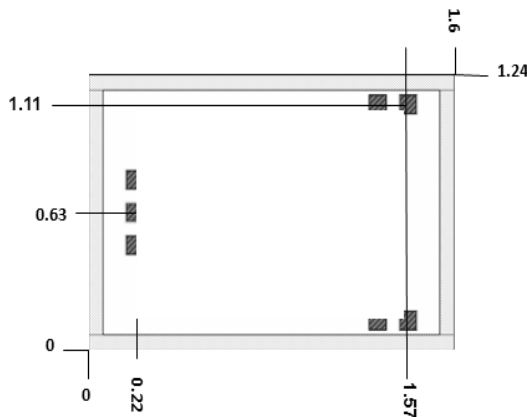
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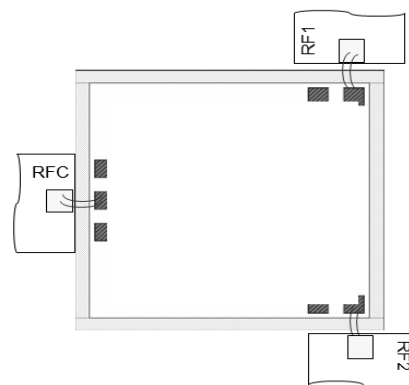
Typical Performance Curve



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.