SAC3801AQ4

GaAs MMIC Power Divider
2~20GHz

Rev 2.6

Features

- Frequency：2~20GHz
- Insertion Loss：1dB(Typ.)
- Input/Output VSWR：1.4：1
- Size：4mm×4mm×1.2mm
- RoHS Compliant

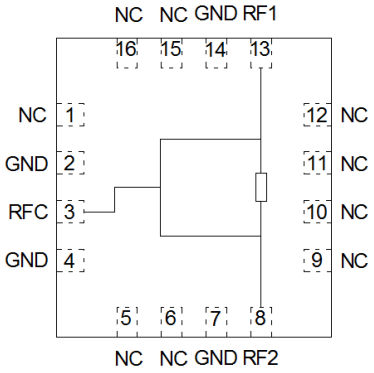
Typical Applications

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

General Description

SAC3801AQ4 is a GaAs MMIC 2-way 0° power divider in leadless 4x4mm surface mount package, which operates between 2GHz～20GHz with 1dB(Typ.) insertion loss and VSWR 1.4:1.

Functional Diagram



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℃	2	—	20	GHz
Insertion Loss	IL		—	-1	-1.5	dB
Amplitude Unbalance	IP		—	±0.25	—	dB
RF1 VSWR	VSWR		—	1.4	1.8	:1
RF2 VSWR			—	1.4	1.8	:1
RFC VSWR			—	1.4	1.8	:1
Isolation	ISO		-12	-20	—	dB

Absolute Maximum Ratings

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

RoHS

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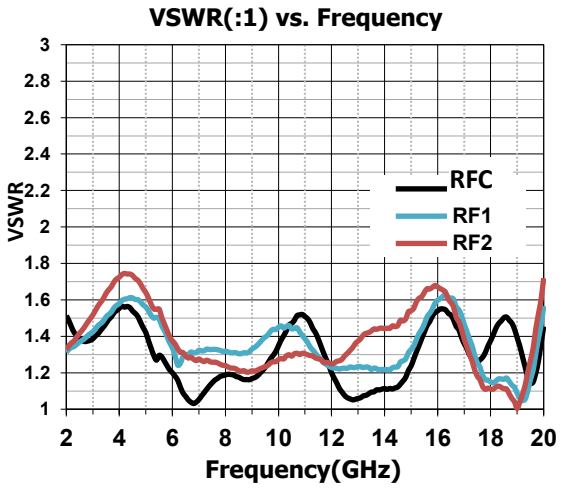
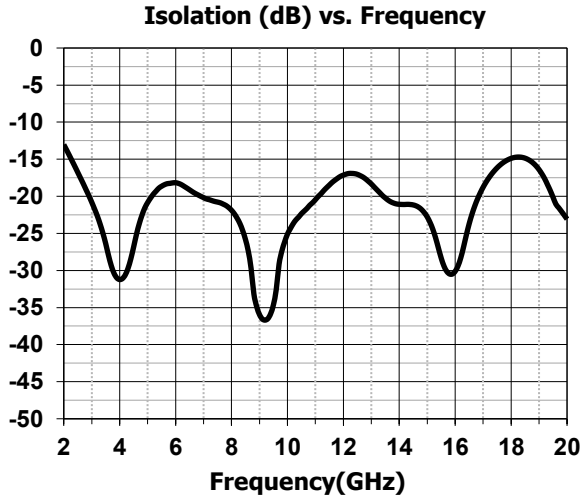
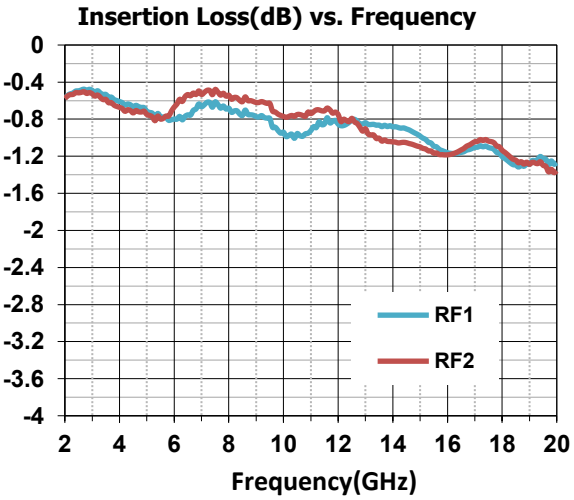
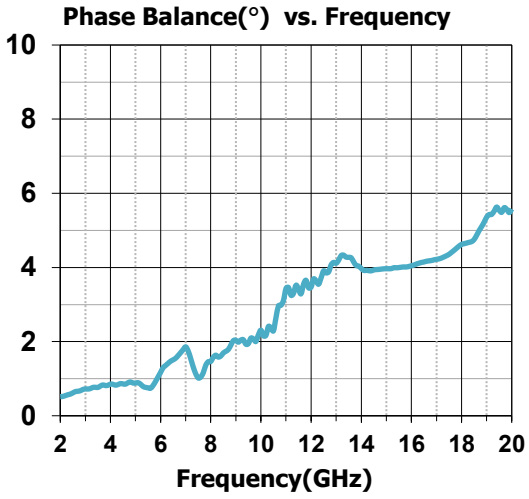
Typical Performance Curve









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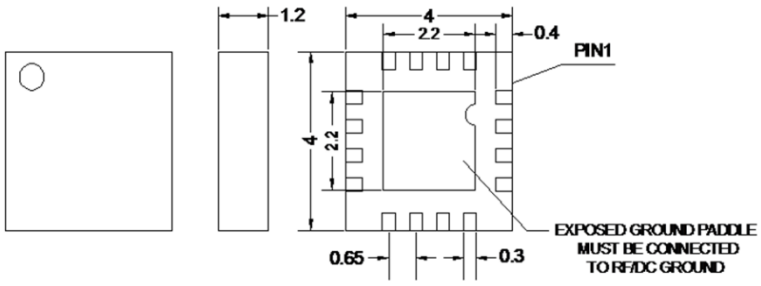
Outline Drawing
(All dimensions in mm)



Attention:

1. The moisture resistant grade of products is 2A, the storage environment ≤30° C/60% RH，The surrounding workshop Life is 4 weeks. 2. After un-packing, It is necessary to bake the parts for 6 hours in 125+/-5 degree environment before soldering.

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