

Features

- Frequency: 2~18GHz
- Insertion Loss: $\leq 1.5\text{dB}@10\text{GHz}$
- Input/Output VSWR: 1.4:1
- Size: 4mm×4mm×1.2mm

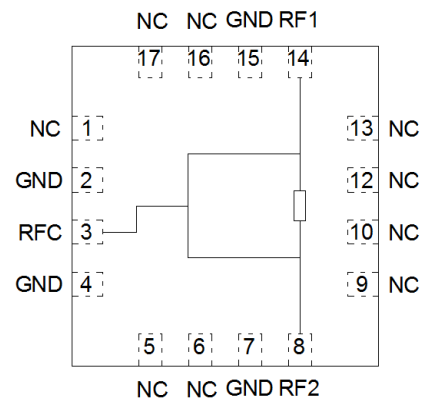
Typical Applications

- EW
- SATCOM
- Test Equipment and Sensors

General Description

SAC3801Q4 is a Lump Elements GaAs MMIC 2-way 0° power divider which operates between 2GHz~18GHz with insertion loss 1.4dB at 10GHz and VSWR 1.4:1.

Functional Diagram



Electrical Performance

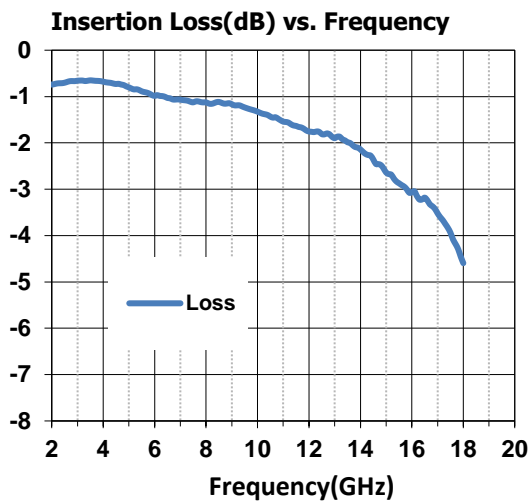
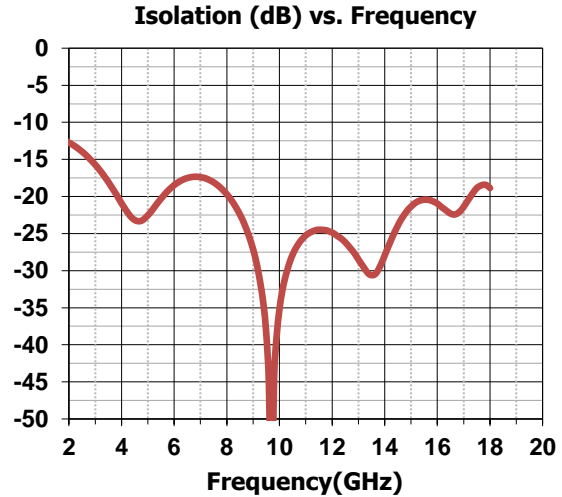
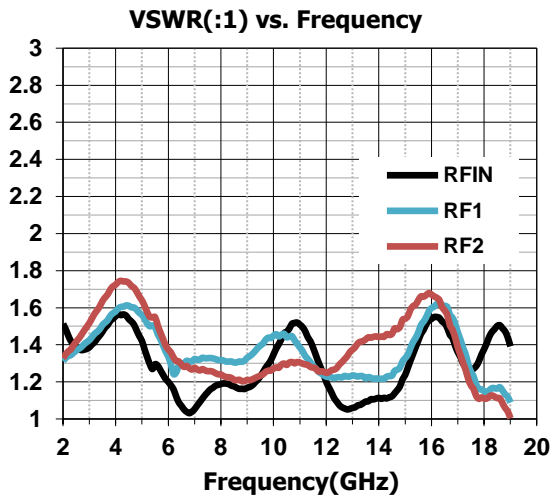
$T_A=25^\circ\text{C}$, $Z_0=50\Omega$

Parameter	Symbol	Condition's	Min.	Typ.	Max.	Units
Frequency Range	f	Z _{in} =Z _{out} =50 Ω T _A =+25°C	2	—	18	GHz
Insertion Loss	IL		—	-1	—	dB
Amplitude Unbalance	IP		—	±0.25	—	dB
RF1 VSWR	VSWR		—	1.4	1.8	:1
RF2 VSWR			—	1.4	1.8	:1
RFIN			—	1.4	1.8	:1
Isolation	ISO		-12	-20	—	dB

Absolute Maximum Ratings

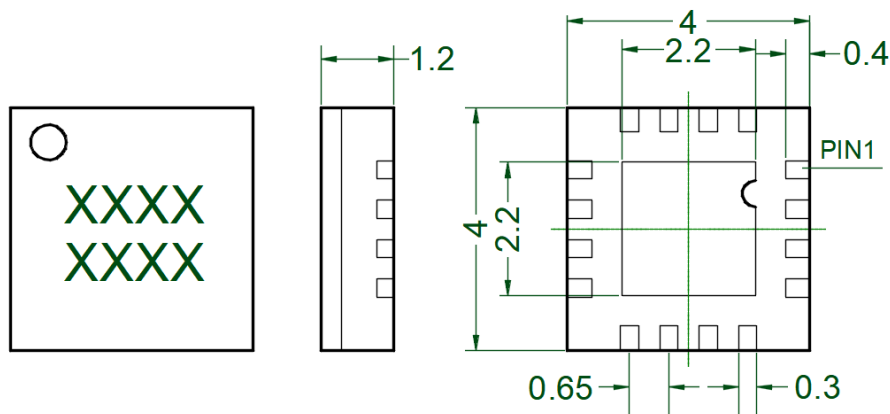
Maximum Input Power	+27dBm	Operating Temperature	-55°C~+85°C
Channel temperature	150°C	Storage Temperature	-65°C~+150°C

Typical Performance Curve



Outline

All dimensions in mm



Pin Descriptions

Pin No.	function	Pin No.	function
1	Connect to GND	11	Connect to GND
2	Connect to GND	12	Connect to GND
3	RFIN	13	Connect to GND
4	Connect to GND	14	RF1
5	Connect to GND	15	Connect to GND
6	Connect to GND	16	Connect to GND
7	Connect to GND	17	Connect to GND
8	Connect to GND	18	RF2
9	Connect to GND		
10	Connect to GND		

Attention:

1. The moisture resistant grade of products is 2a, the storage environment $\leq 30^{\circ}\text{C}/60\% \text{RH}$, 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.