

# SAC3811Q5

4-Way 0° GaAs MMIC Power Divider  
8~12GHz

Rev 1.2

## Features

- Frequency: 8~12GHz
- Insertion Loss: ≤1.8dB
- Package Size: 5mm×5mm×1.2mm

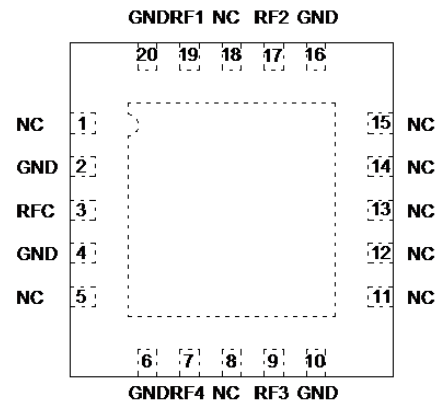
## Typical Applications

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

## General Description

SAC3811Q5 is a GaAs MMIC 4-Way 0° power divider which operates between 8~12GHz with insertion loss 1.2dB.

## General Description



## Electrical Performance ( $T_A=25^\circ\text{C}$ , $Z_0=50\Omega$ )

| Parameter            | Symbol | Condition's   | Min. | Typ. | Max. | Units |
|----------------------|--------|---|------|------|------|-------|
| Frequency Range      | f      | Z <sub>in</sub> =Z <sub>out</sub> =50Ω<br>T <sub>A</sub> =+25°C | 8    | —    | 12   | GHz   |
| Insertion Loss       | IL     |   | —    | 1.2  | -1.8 | dB    |
| Amplitude Unbalance  | ΔA     |   | —    | ±0.1 | ±0.2 | dB    |
| Phase Unbalance      | ΔP     |   | —    | 3    | 4    | °     |
| RFC VSWR             | VSWR   |   | —    | 1.3  | 1.6  | :1    |
| RF1/RF2/RF3/RF4 VSWR |        |   | —    | 1.25 | 1.4  | :1    |
| Isolation            | ISO    |   | -23  | -35  | —    | dB    |

## Absolute Maximum Ratings

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

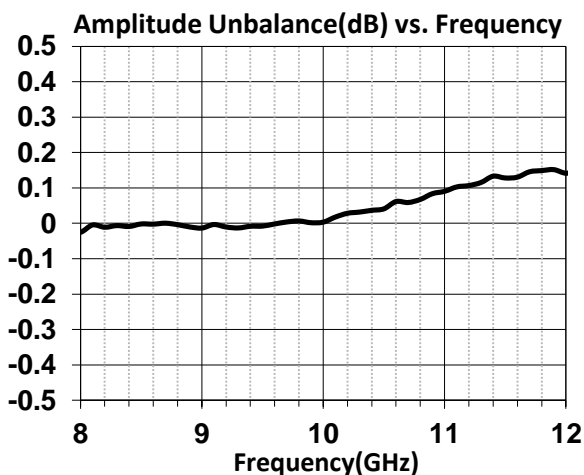
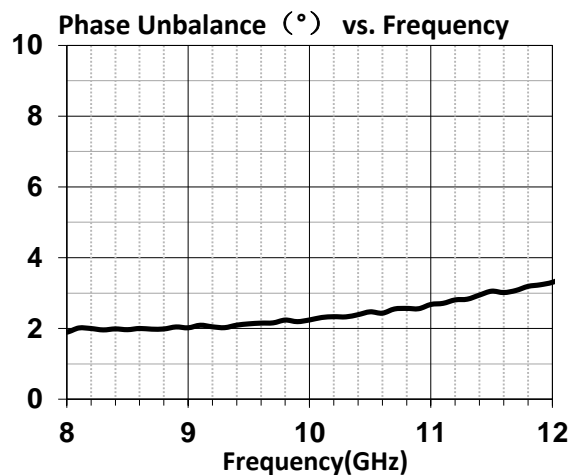
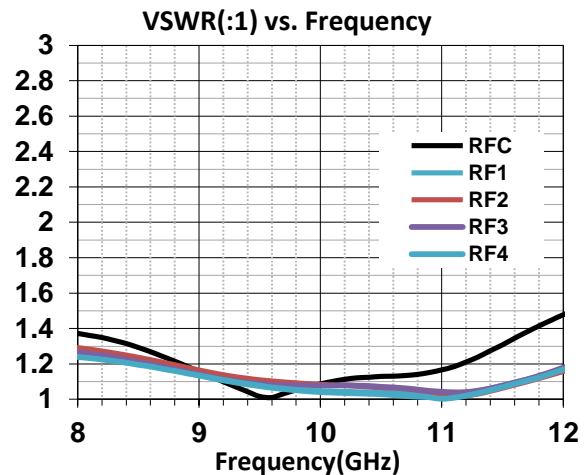
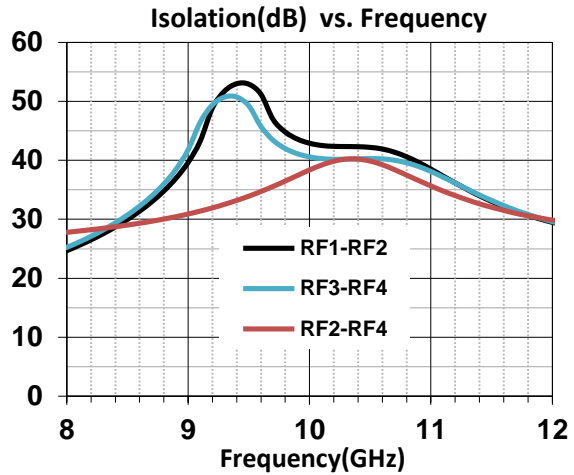
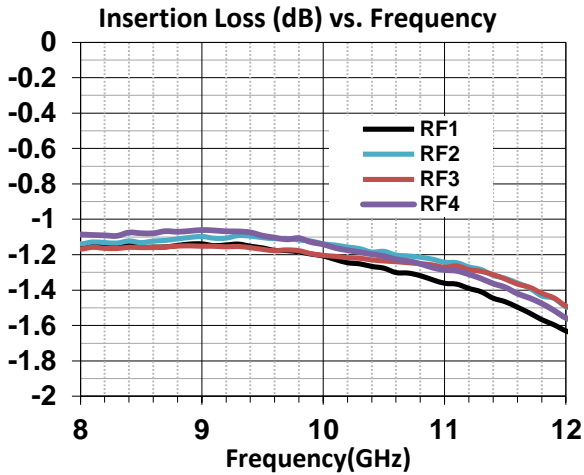
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## Typical Performance Curve



### SuperApex Corporation

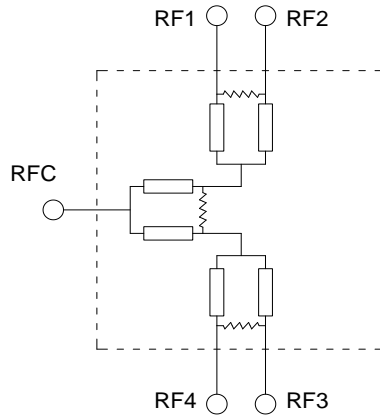
Address: 1580 S. Milwaukee Ave. Suite 405, Libertyville, IL 60048, USA  
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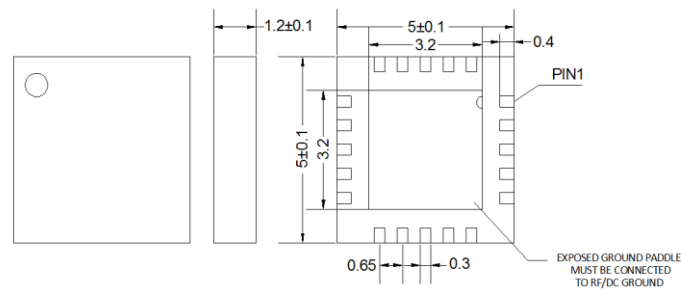
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## Simplified Electrical Schematic



## Outline Drawing (all dimensions in mm)



### 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  $125 \pm 5$  degree environment before soldering.