

XT3811Q5



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

Rev 1.1

Features

- Frequency: 8~12GHz
- Insertion Loss: $\leq 1.8\text{dB}$
- Package Size: 5mm×5mm×1.2mm

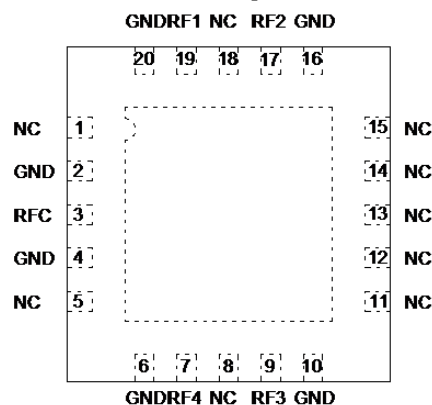
Typical Applications

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

General Description

XT3811Q5 is a GaAs MMIC 4-Way 0° power divider which operates between 8~12GHz, with insertion loss 1.8dB.

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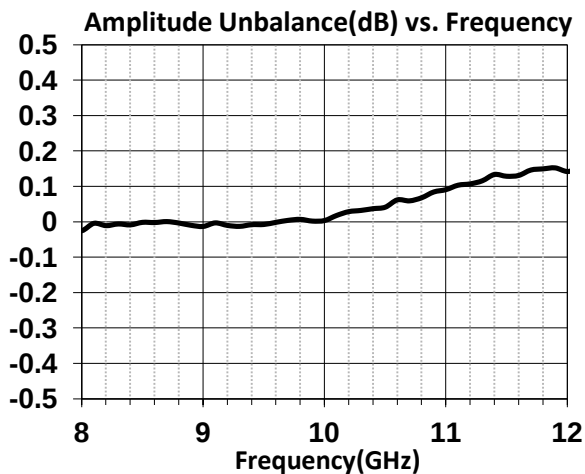
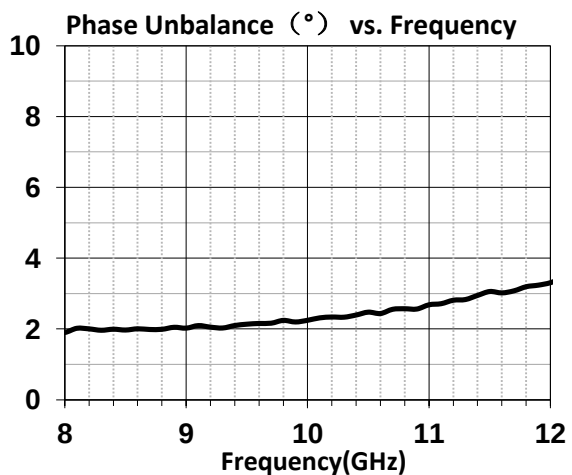
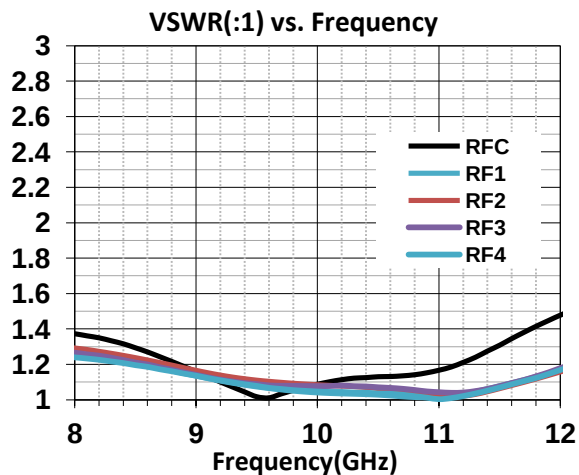
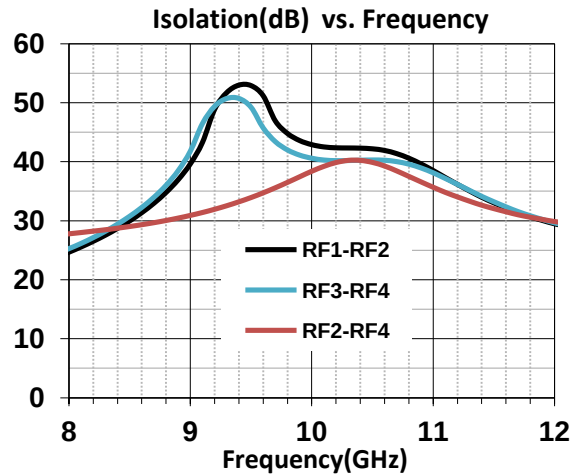
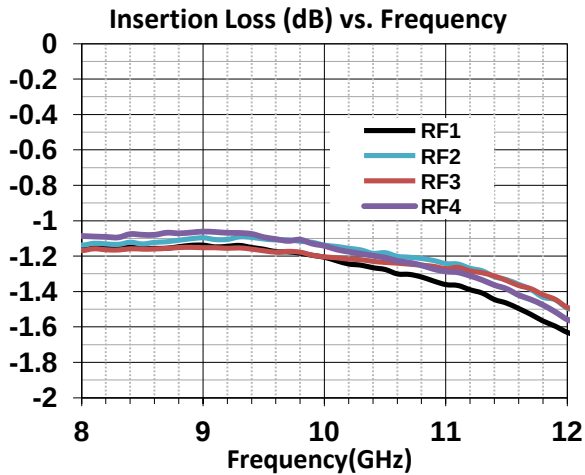
Electrical Performance ($T_A=25^\circ\text{C}$, $Z_0=50\Omega$)

Parameter	Symbol	Condition's	Min.	Typ.	Max.	Units
Frequency Range	f	Zin=Zout=50Ω T _A =+25℃	8	—	12	GHz
Insertion Loss	IL		—	1.2	-1.8	dB
Amplitude Unbalance	Δ A		—	±0.1	±0.2	dB
Phase Unbalance	Δ P		—	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

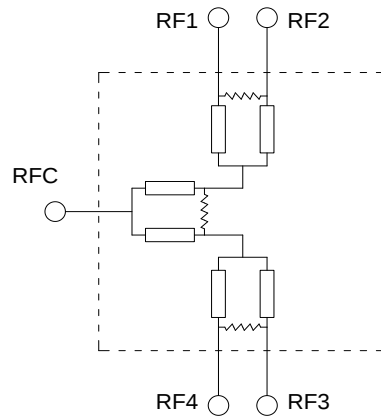
Absolute Maximum Ratings

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

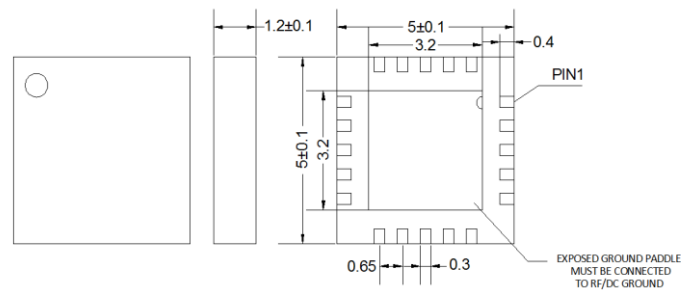
Typical Performance Curve



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 ± 5 degree environment before soldering.