

Features

- Frequency: 2~20GHz
- Insertion Loss: $\leq 1.4\text{dB}@18\text{GHz}$
- Input/Output VSWR: 1.4: 1
- Package Size: 4mm×4mm×1.2mm

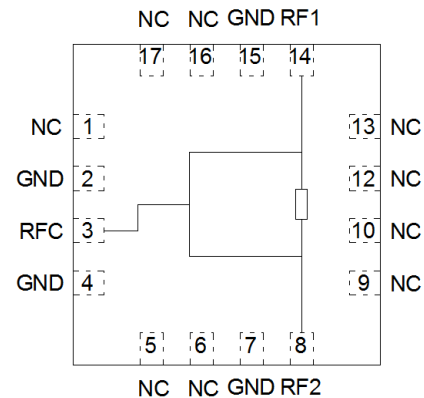
Typical Applications

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

General Description

XT3801AQ4 is a GaAs MMIC 2-way 0° power divider which operates between 2GHz~20GHz with insertion loss 1.2dB and VSWR 1.4:1.

Functional Diagram



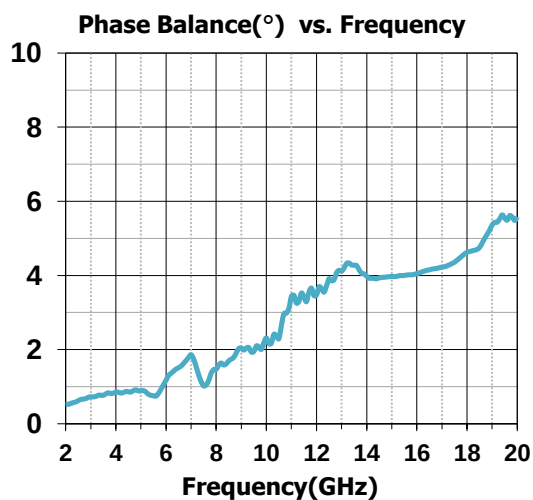
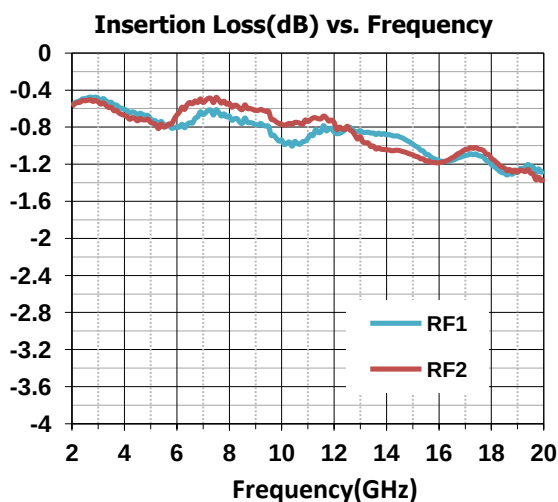
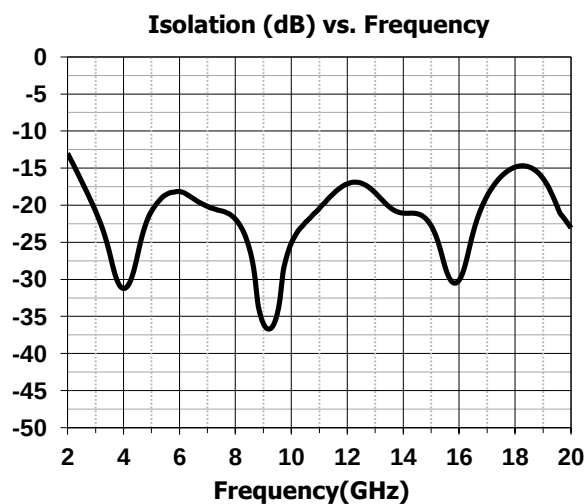
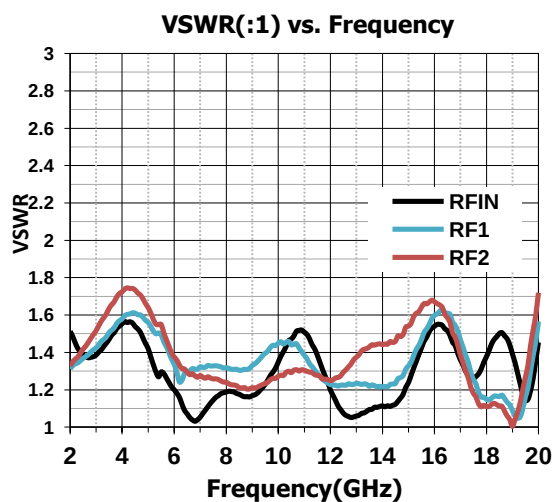
Electrical Performance ($T_A=25^\circ\text{C}, Z_0=50\Omega$)

Parameter	Symbol	Condition's	Min.	Typ.	Max.	Units
Frequency Range	f	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
RFIN			—	1.4	1.8	:1
Isolation	ISO			-12	-20	—

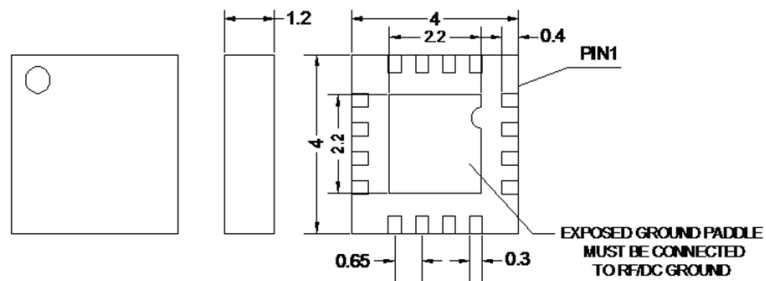
Absolute Maximum Ratings

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

Typical Performance Curve



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.