

Features

- Frequency: 8~12GHz
- Insertion Loss: $\leq 0.8\text{dB}@12\text{GHz}$
- Input/Output VSWR: $\leq 1.2:1$
- Die Size: $1.3\text{mm} \times 1.25\text{mm} \times 0.1\text{mm}$

Typical Applications

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

General Description

XT3804 is a GaAs MMIC 2-Way 0° power divider which operates between 8~12GHz with insertion loss 0.8dB and VSWR 1.2:1.

The chip offers full passivation for increased reliability and moisture protection.

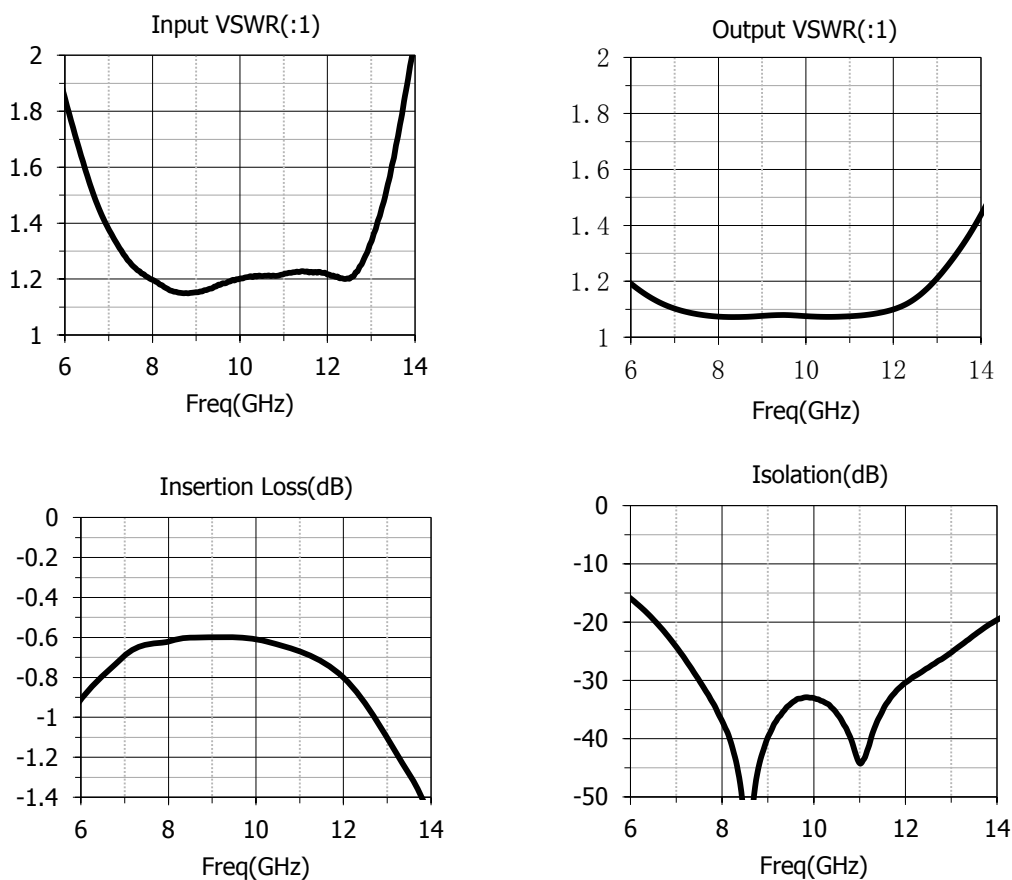
Electrical Performance ($T_A=25^\circ\text{C}$, $Z_0=50\Omega$)

Parameter	Symbol	Condition's	Min.	Typ.	Max.	Units
Frequency Range	f	Zin=Zout=50Ω T _A =+25 °C	8	—	12	GHz
Insertion Loss	IL		—	—	-0.8	dB
Amplitude Unbalance	IP		—	±0.1	—	dB
Input VSWR	VSWR		—	—	1.2	:1
Output VSWR			—	—	1.1	:1
Isolation	ISO		-31	—	—	dB

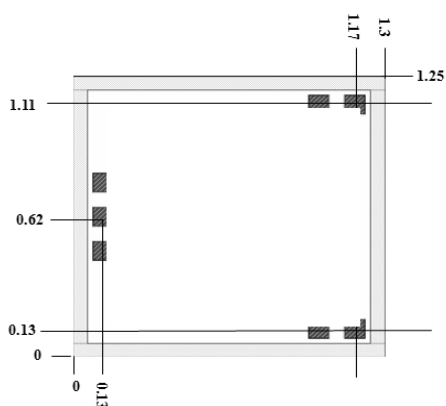
Absolute Maximum Ratings

Maximum Input Power	+22dBm	Operating Temperature	$-55^\circ\text{C} \sim +85^\circ\text{C}$
Channel temperature	150°C	Storage Temperature	$-65^\circ\text{C} \sim +150^\circ\text{C}$

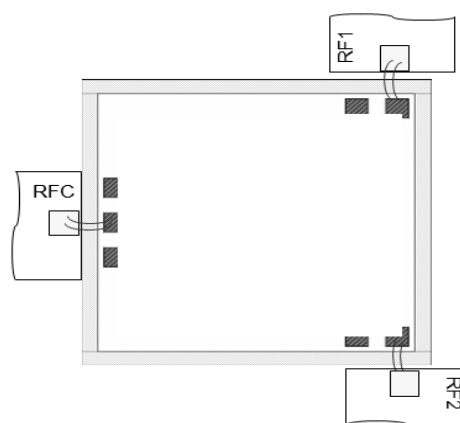
Typical Performance Curve



Die Outline (all dimensions in mm)



Assembly Drawing



Attention:

GaAs MMIC devices are susceptible to damage from Electrostatic Discharge. Proper precautions should be observed during handling, assembly and test.