

Features

- Frequency: 18~26GHz
- Insertion Loss: $\leq 0.9\text{dB}@26\text{GHz}$
- Output VSWR: $\leq 1.2:1$
- Die Size: 1.14mm×1.25mm×0.1mm

Typical Applications

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

General Description

SAC3805 is a GaAs MMIC 2-Way 0° power divider which operates between 18~26GHz with insertion loss less than 0.9dB and output VSWR 1.2:1.

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

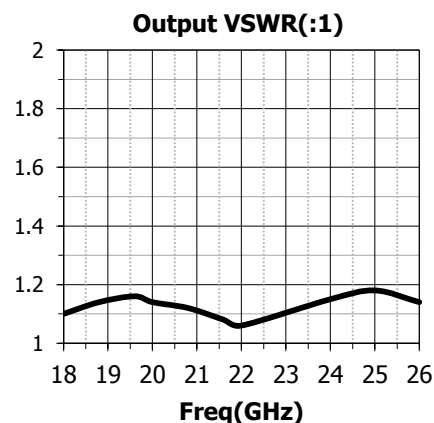
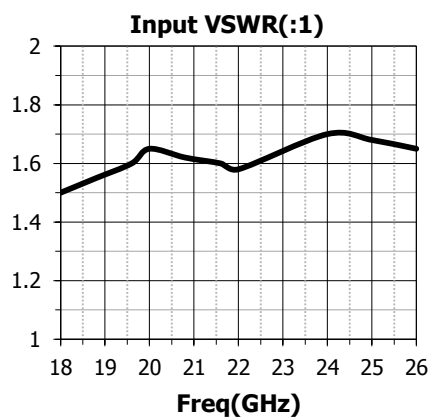
Electrical Performance ($T_A=25^\circ\text{C}$, $Z_0=50\Omega$)

Parameter	Symbol	Condition's	Min.	Typ.	Max.	Units
Frequency Range	f	$Z_{in}=Z_{out}=50\Omega$ $T_A=+25^\circ\text{C}$	18	—	26	GHz
Insertion Loss	IL		—	—	-0.9	dB
Input VSWR	VSWR		—	—	1.8	:1
Output VSWR			—	—	1.2	:1
Isolation	ISO		-19	—	—	dB

Absolute Maximum Ratings

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

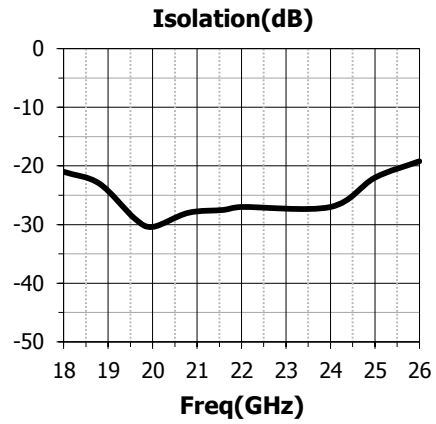
Typical Performance Curve



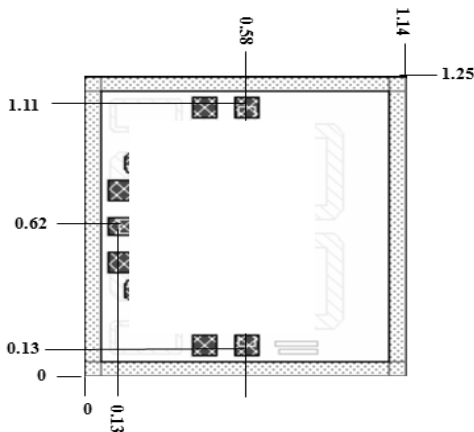
SAC3805

GaAs MMIC Power Divider
18~26GHz

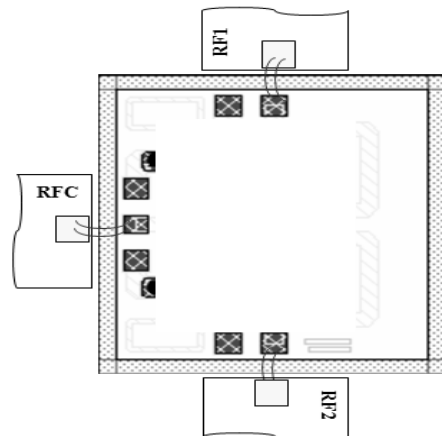
Rev 2.1



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.