

SAC3708



GaAs MMIC Equalizer
DC~20GHz 5dB

Rev 1.0

➤ Key features

- Frequency range: DC ~20GHz
- Equalization: 5dB
- Input/Output VSWTR: 1.3/1.3 Typ.
- Chip size: 0.72mm*0.5mm*0.1mm

SAC3708 is an amplitude equalizer chip exhibiting a positive slope amplitude-frequency response within the DC–20 GHz frequency band. Fabricated using GaAs process, SAC3708 offers excellent process consistency and is suitable for micro-assembly operations such as eutectic bonding and wire bonding. It is designed for gain compensation applications in microwave devices and microwave components.

Main technical parameters

index	symbol	Reference value			unit
		MIN	TYP	MAX	
Frequency range	f	DC		20	GHz
Equalization	Gpp		5		dB
Input VSWTR	VSWRi		1.3	1.5	:1
Output VSWTR	VSWRo		1.3	1.6	:1

Extreme technical parameter table

Parameter Name	Limit value	Parameter Name	Limit value
Maximum operating temperature	+85°C	Maximum input RF power	25 dBm
Storage temperature	-55°C ~ +150°C		

SuperApex, LLC

1580 S. Milwaukee Ave., Suite 405, Libertyville, IL 60048, USA
Tel: 1-847-505-8319, 1-847-573-9866
E-mail: sales@superapexco.com
Website: www.superapexco.com

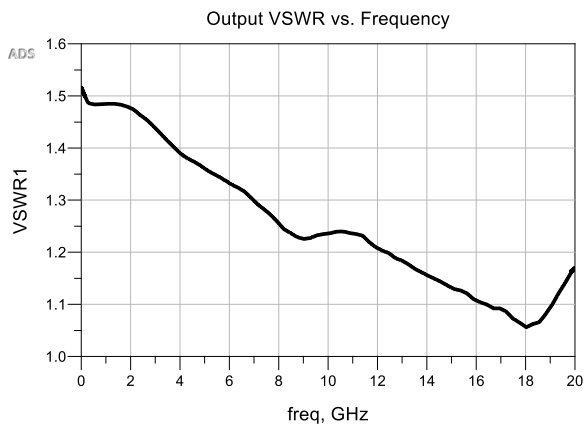
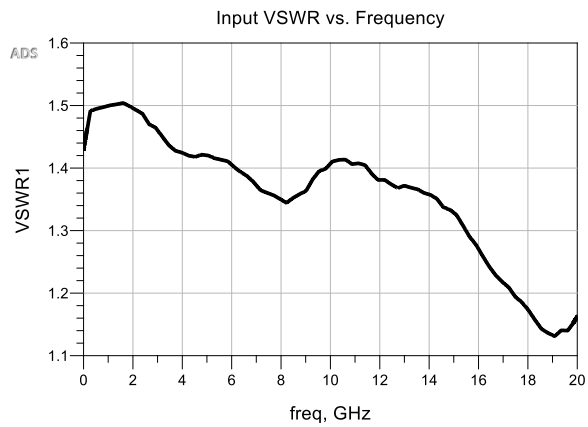
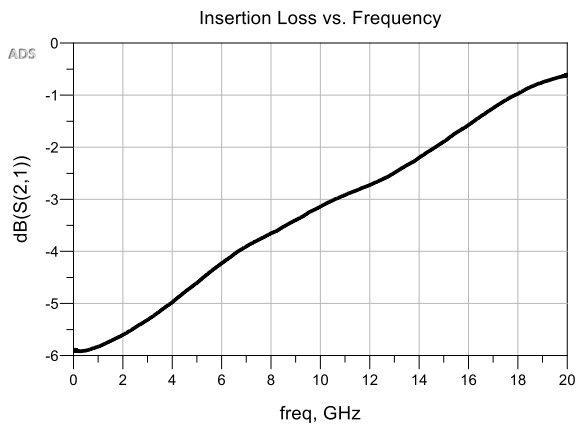
SAC3708



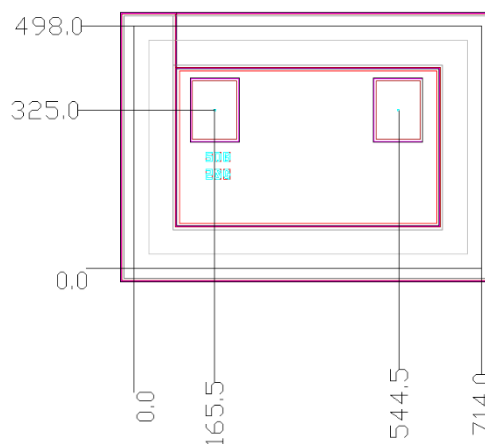
GaAs MMIC Equalizer
DC~20GHz 5dB

Rev 1.0

Typical curves



Dimensional drawing (um)



1. All drawing dimensions are in micrometers;
2. Bond pad size 100 um x100um;
3. The chip has a thickness of 100um and requires microwave grounding on the back;
4. The bonding wire should be as short as possible, not longer than 300um.

SuperApex, LLC

1580 S. Milwaukee Ave., Suite 405, Libertyville, IL 60048, USA
Tel: 1-847-505-8319, 1-847-573-9866
E-mail: sales@superapexco.com
Website: www.superapexco.com