AGBSFxxx

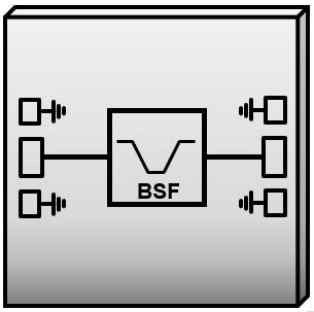
GaAs MMIC
Bandstop Filter Series

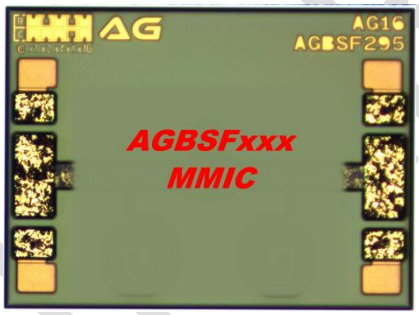
Typical Applications

- Communication Systems
- Point to Point Radio
- Fiber Optics
- Test Equipment
- Wideband Military & Space

Series Features

- Ka-Band bandstop filter
- 50Ω Matched DC coupled RF Ports
- Chip Size: 1.00 x 0.75 x 0.1 mm; Matches AGATNxx, AGLPFxxx, AGBPFxxx, and AGTRMxxx series MMICs





AGBSFxxx Series Parts

Part Number	Description	Page No.
AGBSF295	27GHz – 32GHz Bandstop Filter	2

PRELIMINARY

AGBSF295

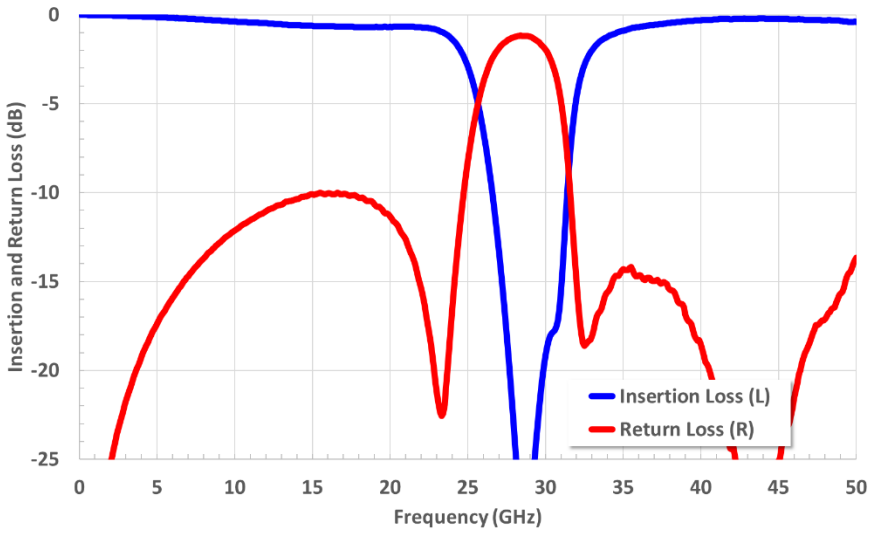
GaAs MMIC
27GHz - 32GHz Bandstop Filter

Features

- Center Frequency: 29.5GHz
- Stopband Rejection: 27.8dB @ 29.5GHz
- Passband loss: 3dB at 25.9GHz and 32.9GHz
- 50Ω Matched DC coupled RF Ports

Performance Graphs

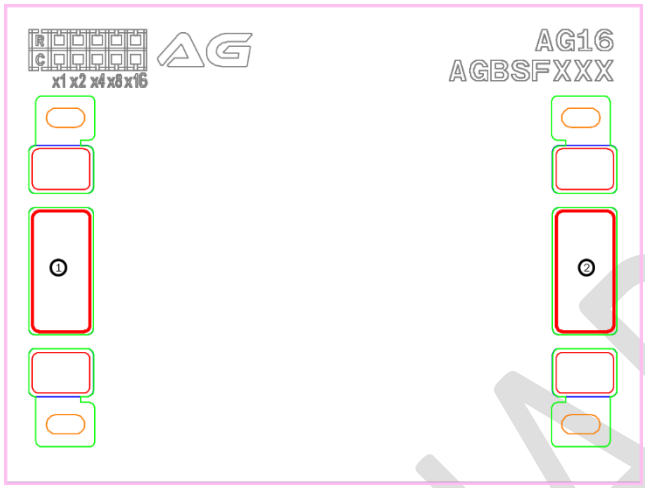
Insertion and Return Loss



Electrical Specifications (TA = +25°C)

Parameter	Units	Minimum	Typical	Maximum
Frequency	GHz	27.1		32.0
Stopband Rejection	dB	10.0		29.5
Passband 3dB Point	GHz	25.9		32.9
Passband Return Loss	dB	6.6	12	
Package Type			Die	

Outline Drawing



Pad Descriptions

Pad	Function	Pad Size	Description
1	RFIN	101x200µm	DC coupled 50Ω Matched
2	RFOUT	101x200µm	DC coupled 50Ω Matched
Die Bottom	GND	Backside	Epoxy/Solder to Baseplate

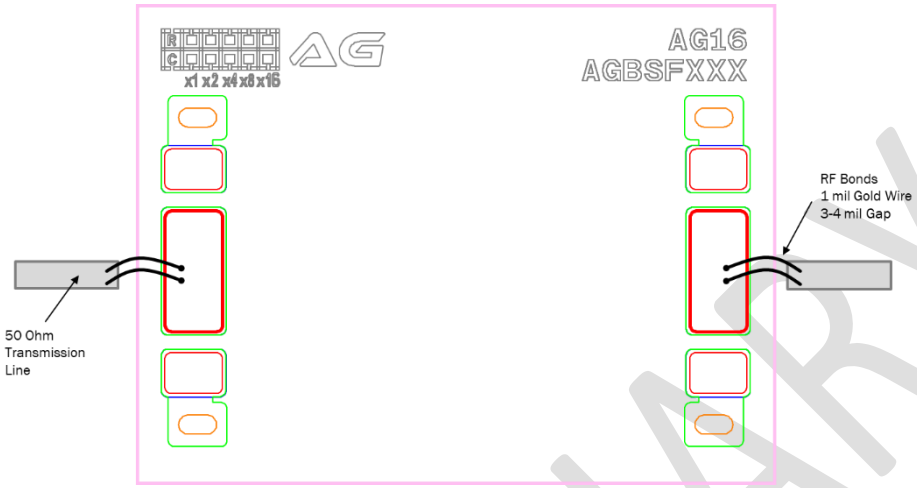
Absolute Maximum Ratings

Parameter	Rating
Drain Bias Voltage (VDD)	No Bias
RF Input Power (RFIN)	+20dBm*
Channel Temperature	150°C
Storage Temperature	-65 to 150°C
Operating Temperature	-55 to 85°C

*To be tested

PRELIMINARY

Assembly Diagrams



Assembly Notes:

1. Die Thickness is 100µm
2. Bondpad metallization: 7µm gold
3. Backside metallization: 4.5µm gold
4. Silver Epoxy or AuSn Eutectic attach MMIC



Die Packaging Information

- GP-4 (Gel-Pak)

Important Notice

The information contained in this Data Sheet and any associated documents is believed to be reliable; however, AmpliTech makes no warranties regarding the Data Sheet Information and assumes no responsibility of liability whatsoever for the use of the said information. All Data Sheet information is subject to change without notice.

PRELIMINARY