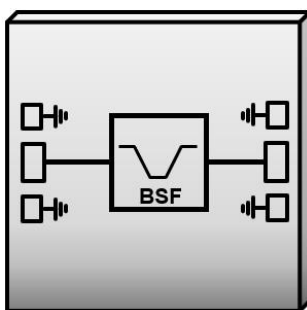


## Typical Applications

- 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

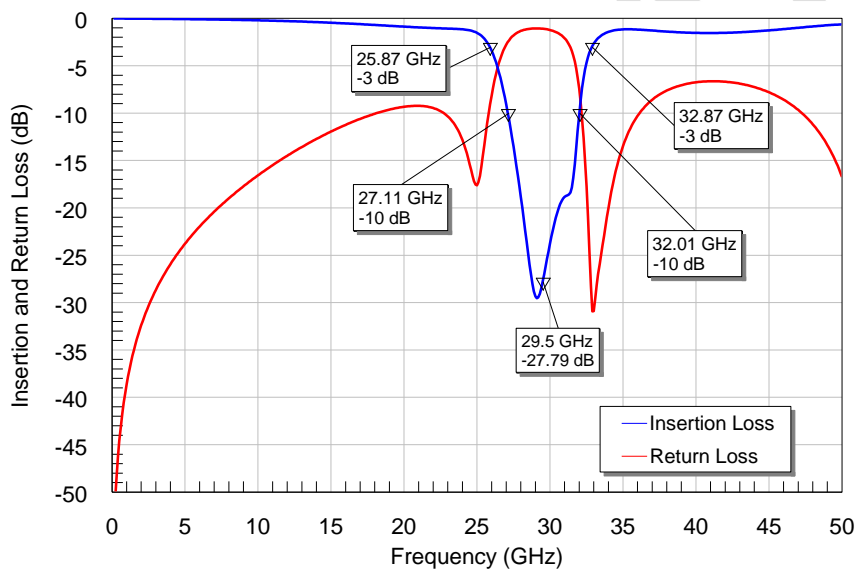
Part Number	Description	Page No.
AGBSF295	27GHz – 32GHz Bandstop Filter	2

## 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

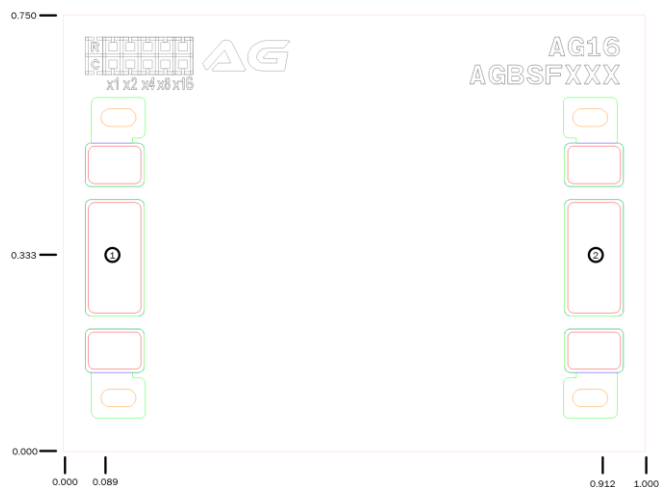
### Insertion and Return Loss (Simulated)



### 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 (dimensions in mm)



## Pad Descriptions

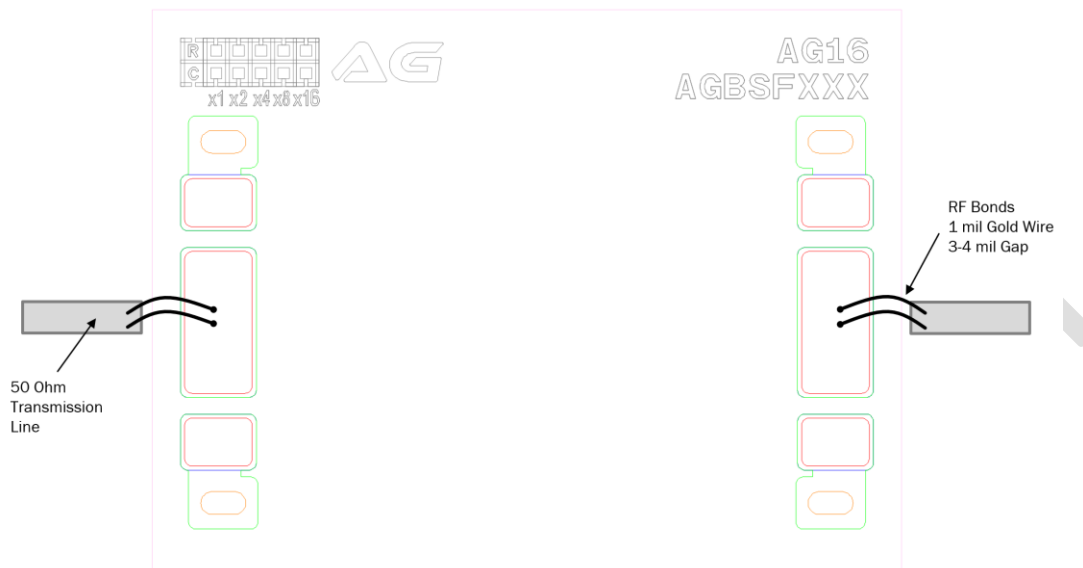
Pad	Function	Pad Size	Description
1	RFIN	101x200 $\mu$ m	DC coupled 50 $\Omega$ Matched
2	RFOUT	101x200 $\mu$ m	DC coupled 50 $\Omega$ Matched
Die Bottom	GND	Backside	Epoxy/Solder to Baseplate

## 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

## Assembly Diagrams



## Assembly Notes:

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



## Die Packaging Information

- GP-4 (Gel-Pak)

AGBSFXXX Datasheet v00	Information on this datasheet is believed to be accurate and reliable. Specifications are subject to change without notice	For price, delivery, and place to order contact: AmpliTech Sales 155 Plant Avenue, Hauppauge, NY 11788 USA Tel. +1 631.521.7831 Order online at <a href="http://www.AmpliTechInc.com">www.AmpliTechInc.com</a>	Pg.4
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