

GaAs MMIC Monolithic Integrated Bandpass Filter , 0.9-1.5 GHz

Performance characteristics

- Frequency range: 0.9 - 1.5 GHz
- Insertion loss: 2.0 dB (typ.)
- Stopband attenuation : $\geq 20\text{dB}@0.5\text{GHz}$, $\geq 20\text{dB}@2.1\text{GHz}$
- Stopband attenuation : $\geq 40\text{dB}@0.4\text{GHz}$, $\geq 40\text{dB}@2.2\text{GHz}$
- Input/output standing wave: 1.5
- 50Ohm input/output
- Chip size: QFN 5 X 5

Use limit parameters

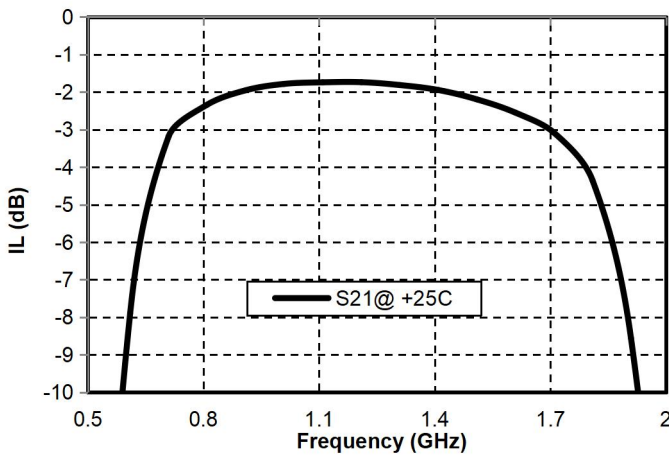
Maximum input power	+30dBm
Operating temperature	-55 ~ +85°C
Storage temperature	-65 ~ +150°C

Product Introduction

GFB -009015A-CQ5 GaAs MMIC monolithic low-pass filter chip covers a frequency range of 0.9~1.5 GHz , with an insertion loss of 2.0 dB and a standing wave of 1.5 . This chip is packaged in a 5 x 5 mm ceramic surface mount package, and the surface of the pin pad is gold-plated, which is suitable for reflow soldering installation.

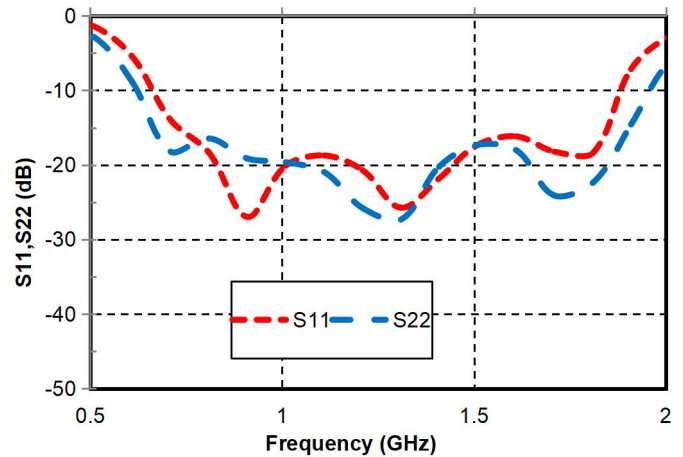
Main index test curve

Insertion Loss vs. Operating Frequency

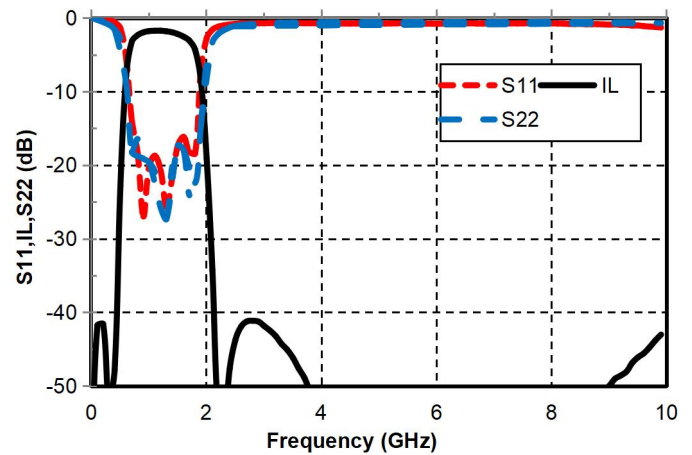
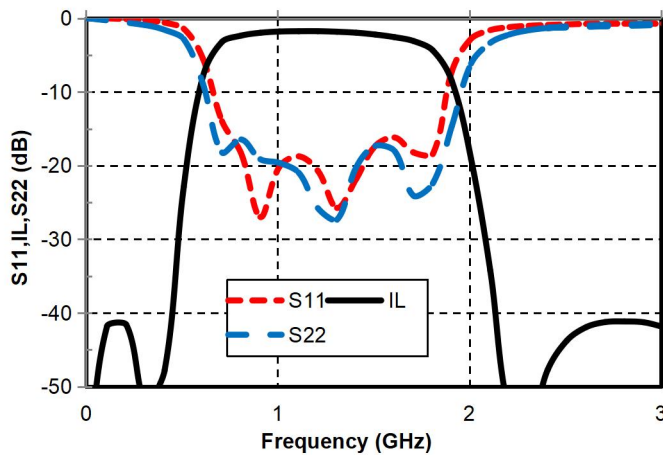


Frequency Response vs. Operating Frequency

Input/Output Frequency Response vs. Operating Frequency

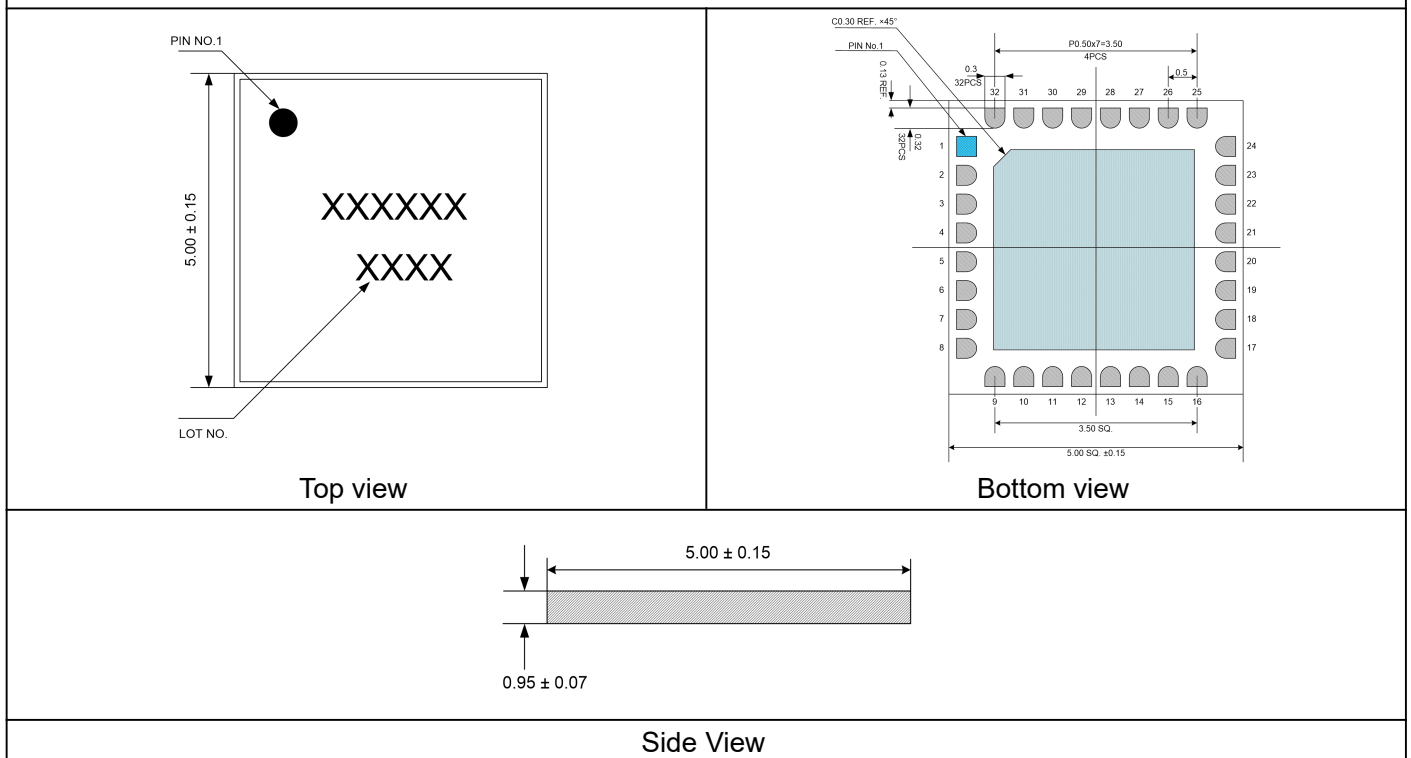


Frequency Response vs. Operating Frequency



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Appearance and structure (units in the figure are all millimeters)



Pin Definition		
Pin number	Function Symbol	Functional Description
4	RFIN	RF signal input terminal
21	RFOUT	RF signal output terminal
3, 5, 20, 22, bottom of chip	GND	The bottom of the chip needs to be well grounded to RF and DC
Other	N C	The pin is left floating and can be grounded

Recommended Circuit

