

## GaAs MMIC Monolithic Integrated Low Pass Filter , DC-3.5 GHz

### Performance characteristics

- Frequency range: DC - 3.5GHz
- Insertion loss: 2.0 dB (typ.)
- Stopband attenuation:  $\geq 30\text{dB}@ 5.3\text{ GHz}$ ;  $\geq 40\text{dB}@ 5.7\text{ GHz}$
- Input\output standing wave: 1. 3
- 50Ohm input/output
- Chip size: QFN 5 X 5

### Use limit parameters

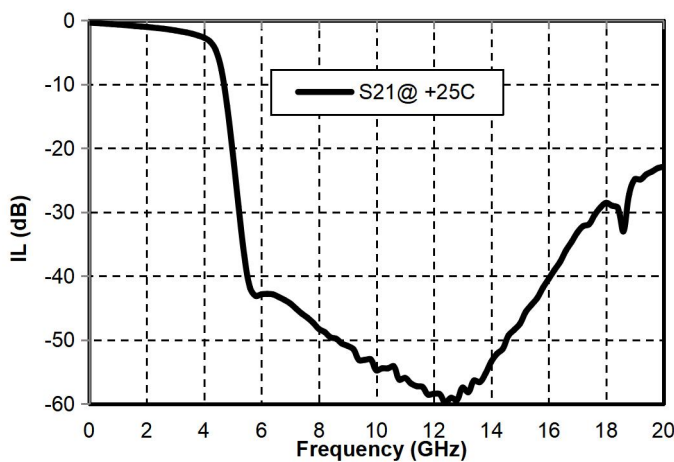
Maximum input power	+30dBm
Operating temperature	-55 ~ +85°C
Storage temperature	-65 ~ +150°C

### Product Introduction

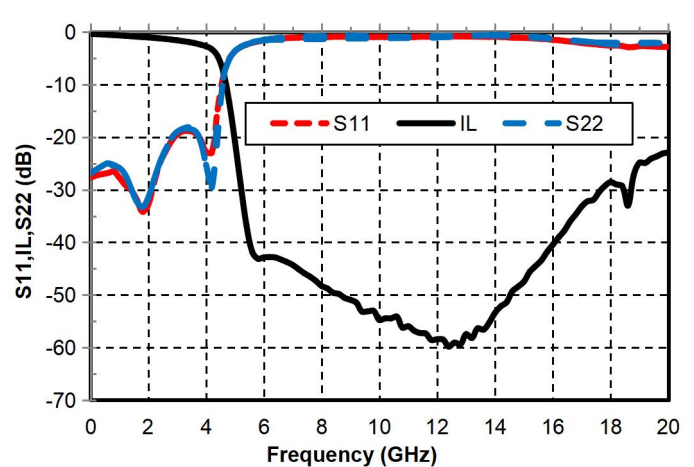
GFL-3.5-CQ4 type monolithic coupler chip, frequency range covers DC ~ 3.5 GHz , in-band insertion loss 2. 0 dB , in-band standing wave 1. 3. This chip adopts 5 x 5 mm ceramic surface mount package, the surface of the pin pad is gold-plated, suitable for reflow soldering installation process.

### Main index test curve

Insertion Loss vs. Operating Frequency

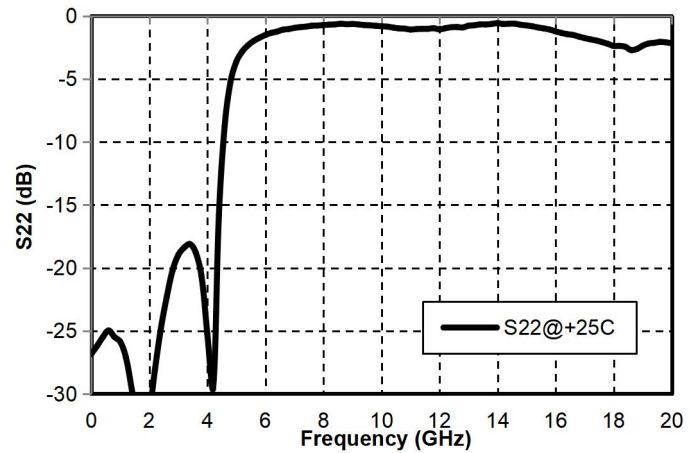
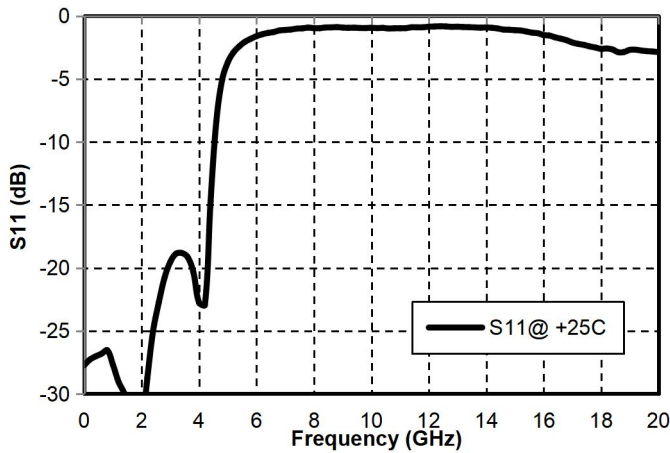


Insertion Loss vs. Operating Frequency



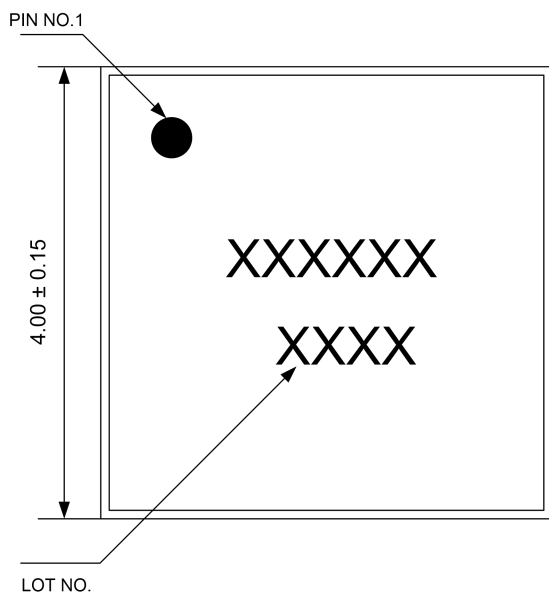
Input Return Loss vs. Operating Frequency

Output Echo vs. Operating Frequency

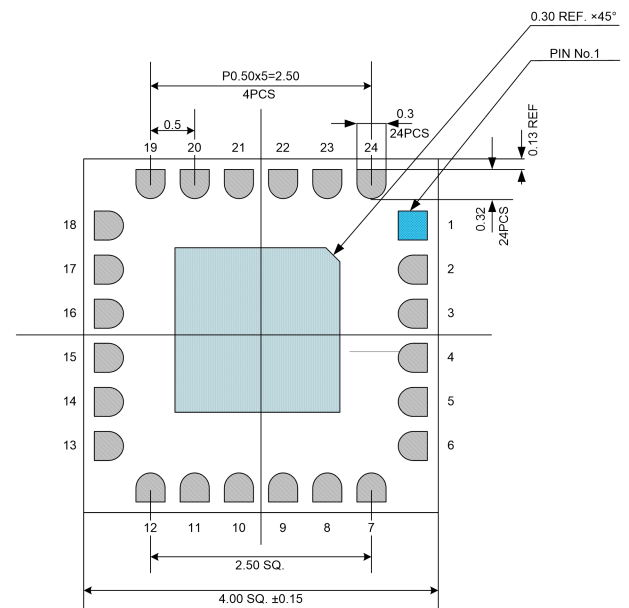


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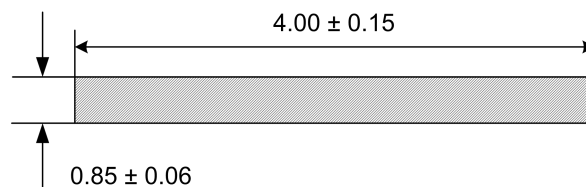
### Appearance structure



Top view



Bottom view



Side View

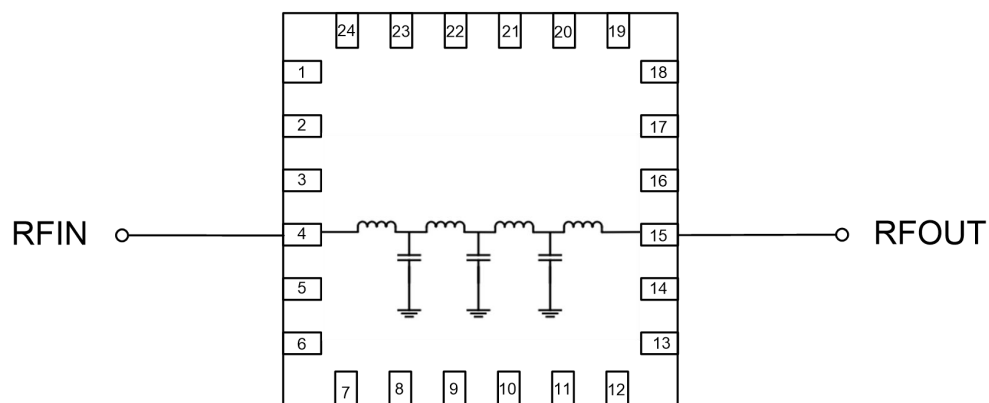
The units in the figures are all in millimeters , and the tolerance is  $\pm 0.15$  mm.

Pin Definition		
Pin number	Function	Functional Description

	Symbol	
4	RFIN	RF signal input terminal
15	RFOUT	RF signal output terminal
Other	N C	The pin is left floating and can be grounded
Chip bottom	GND	Needs to be in good contact with the RF and DC grounds

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### Recommended Circuit



### Precautions for use

- Sealing material : Ceramic material that meets ROHS standards
- Lead frame material: copper alloy
- Lead surface plating: gold, gold layer thickness 0.30um MIN
- Maximum reflow peak temperature: 260 °C