

## GaAs MMIC Monolithic Integrated Low Pass Filter , DC-6 GHz

### Performance characteristics

- Frequency range: DC - 6GHz
- Insertion loss: 2.2 dB ( typ.)
- Stopband attenuation:  $\geq 20$  dB@ 7.8 GHz;  $\geq 30$  dB@ 8 ~20GHz
- Input/output standing wave: 1.5
- 50Ohm input/output
- Chip size: QFN 4X4

### Use limit parameters

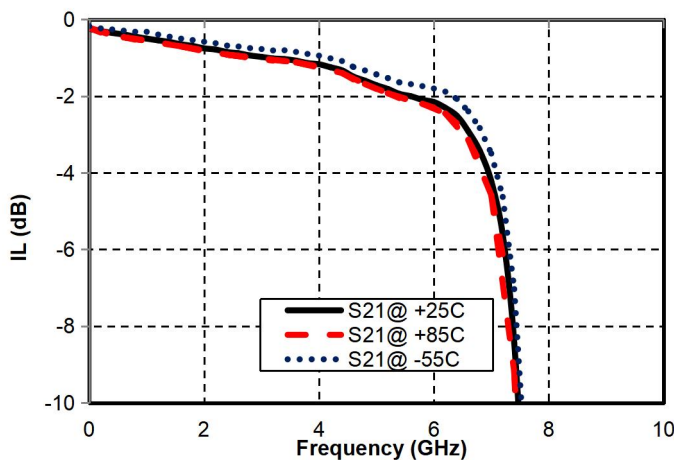
Maximum input power	+30dBm
Operating temperature	-55 ~ +85°C
Storage temperature	-65 ~ +150°C

### Product Introduction

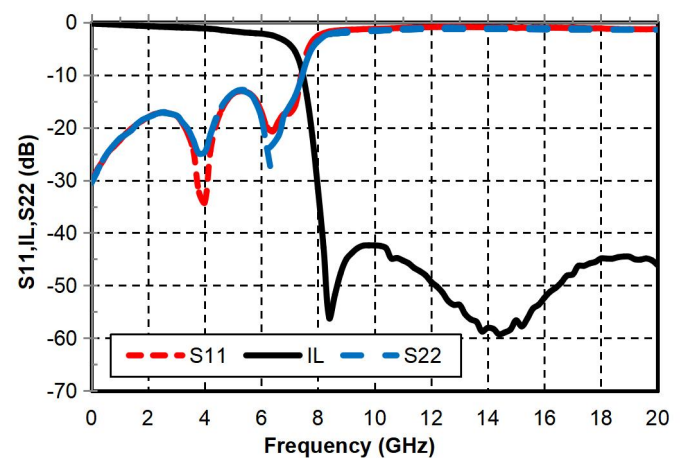
GFL-6B-CQ4 GaAs MMIC monolithic integrated low-pass filter chip, the frequency range covers DC ~ 6 GHz , the in-band insertion loss is 2.2 dB , and the in-band standing wave is 1.5. This chip adopts 4 x 4 mm ceramic surface mount package, and the surface of the pin pad is gold-plated, which is suitable for reflow soldering installation process.

### Main index test curve

Insertion Loss vs. Operating Frequency

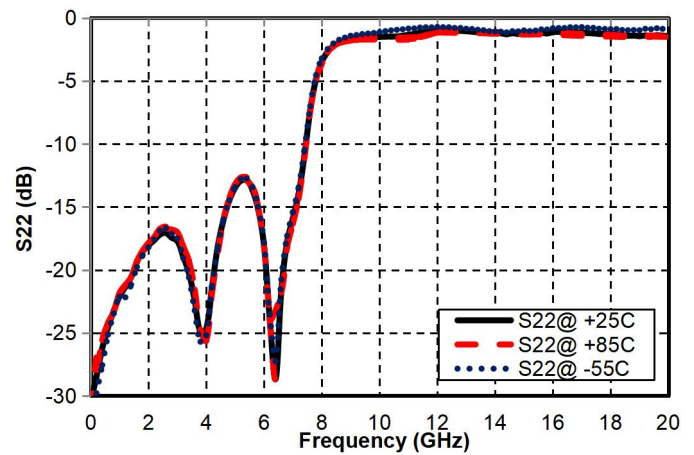
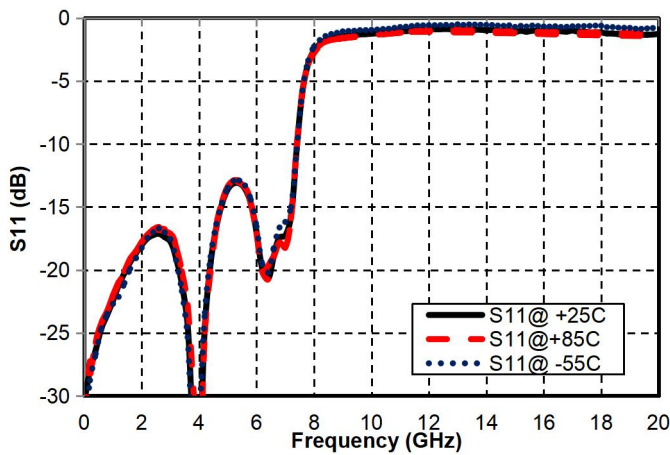


Frequency Response vs. Operating Frequency



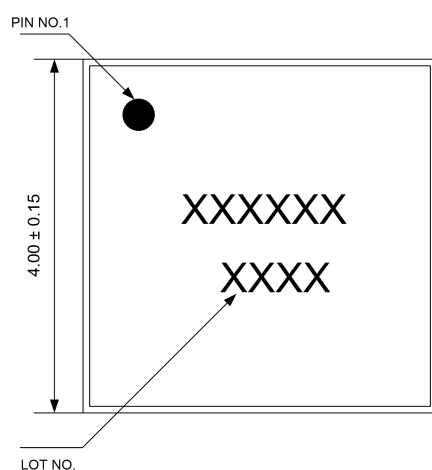
Input Return Loss vs. Operating Frequency

Output Echo vs. Operating Frequency

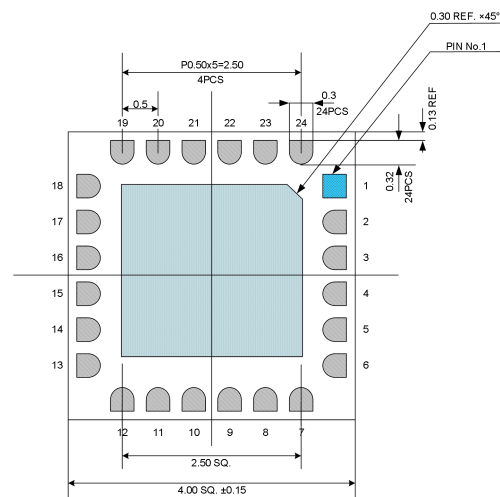


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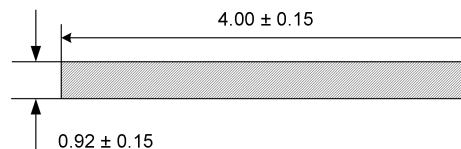
Appearance and structure ( Units in the figure are all millimeters, and the tolerance is  $\pm 0.15$  mm )



Top view



Bottom view



Side View

Pin Definition		
Pin number	Function Symbol	Functional Description
4	RFIN	RF signal input terminal
15	RFOUT	RF signal output terminal
3, 5, 14, 16	GND	The pin needs to be in good contact with the RF and DC

		ground
Chip bottom	GND	Needs to be in good contact with the RF and DC grounds
Other	N C	The pin is left floating and can be grounded

## Recommended Circuit

