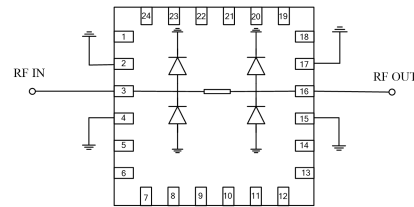


GaAs MMIC Limiter Chip, 1 - 6 GHz

Performance characteristics

- Frequency Range: 1 - 6 GHz
- Insertion loss : 0.6 dB (Tpy .)
- Limiting level: 15dB m
- Power handling: 46dBm (CW)
- 50Ohm input / output
- Chip size: QFN 4X4

Functional Block Diagram



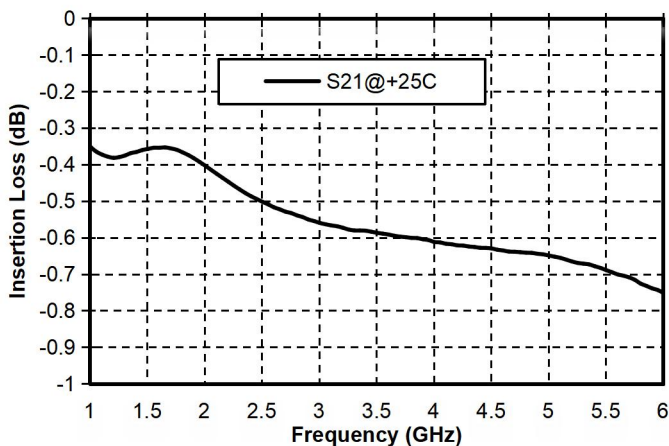
GLM-0 106A-CQ4 is a GaAs MMIC limiter with a frequency range of 1-6 GHz, 50Ω input/output, 0.6 dB within the operating frequency band, 1.3 input and output standing wave , and 46 dBm (CW) burnout resistance . The limiter uses a 4X4mm surface-mount leadless ceramic tube shell to achieve airtight packaging. The surface of the pin pad is gold-plated and is suitable for reflow soldering installation.

Electrical performance parameters (TA = +25°C)

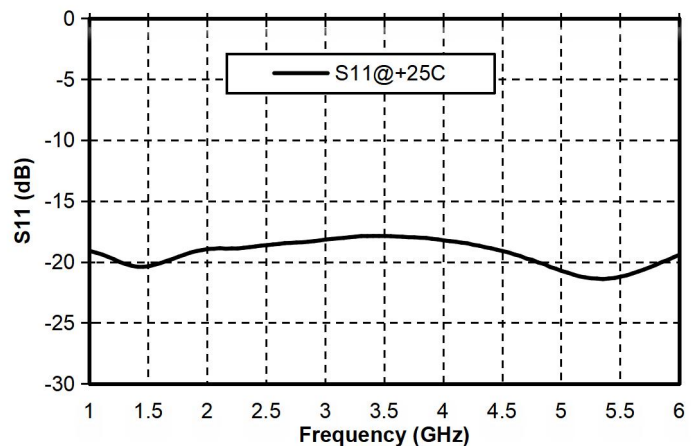
Index	Minimum	Typical Value	Maximum	Unit
Frequency Range		1-6		GHz
Insertion loss	-	0.6	-	dB
Input return loss	-	18	-	dB
Output return loss	-	18	-	dB
Clipping level	-	15	-	dBm
Anti-burning power	-	46	-	dBm

Main index test curve

Insertion Loss vs. Operating Frequency

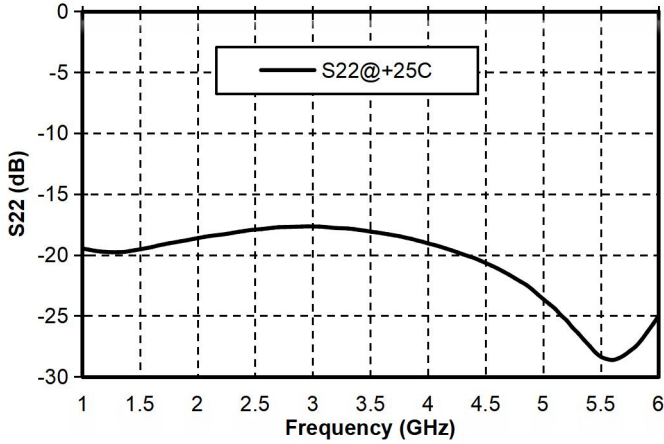


Input Standing Wave vs. Operating Frequency

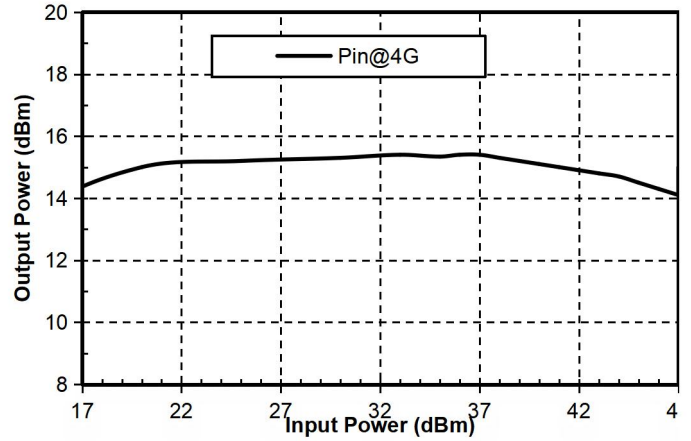


GaAs MMIC Limiter Chip, 1 - 6 GHz

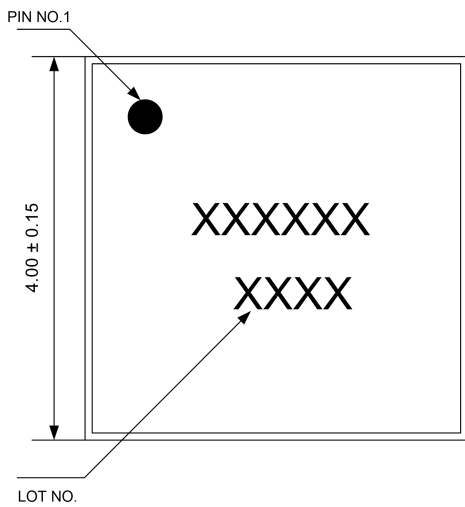
Output Standing Wave vs. Operating Frequency



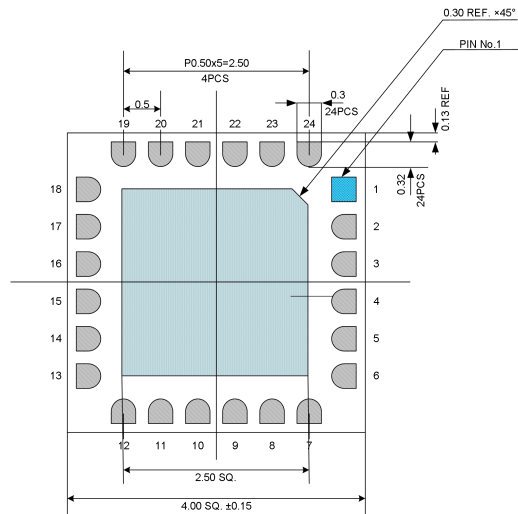
Clipping level@4G



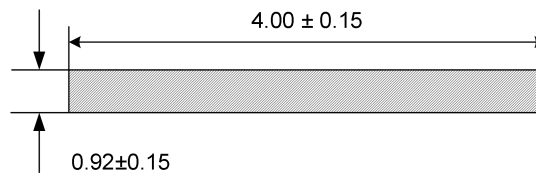
Appearance structure



Top view



Bottom view

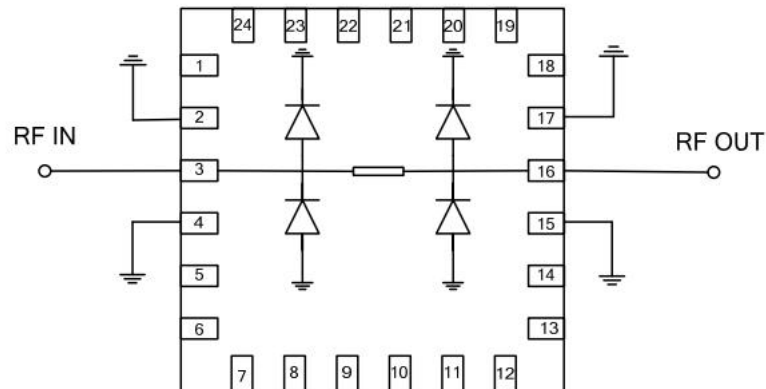


Side View

All units in the figures are millimeters .

GaAs MMIC Limiter Chip, 1 - 6 GHz

Recommended assembly drawing



Pin Definition		
Pin number	Function Symbol	Functional Description
3	RFIN	RF signal input terminal. The internal input terminal of the package does not integrate a DC blocking capacitor . It is recommended to connect an external DC blocking capacitor.
16	RFOUT	RF signal output terminal, the DC blocking capacitor is integrated into the output terminal of the package
2 , 4 , 15 , 17	GND	Needs to be in good contact with the RF and DC grounds
1 , 5~14 , 18~24	NC	No welding required

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

Use limit parameters

Maximum input power	+46dBm
Operating temperature	-55 ~ + 125 °C
Storage temperature	-65 ~ +150°C

Exceeding any of these maximum limits may cause permanent damage.