

GaAs MMIC Limiter Chip, DC - 20 GHz

Performance characteristics

- Frequency range: DC - 20 GHz
- Insertion loss : 0.8 dB (Tpy.)
- Limiting level: 16dB m
- Anti-burning power: 37dBm (CW)
- 50Ohm input / output
- Chip size: QFN 3X3

GLM-0020A is a GaAs MMIC limiter with a frequency range of DC~20GHz , less than 0.8dB within the working frequency band , input and output standing wave 1.5 , and anti-burnout power 5W. This chip adopts 3X3mm plastic surface mount package, which is suitable for reflow soldering installation process.

Use restriction parameter ¹

Maximum input power	+37dBm
Operating temperature	-55 ~ + 125 °C
Storage temperature	-65 ~ +150°C

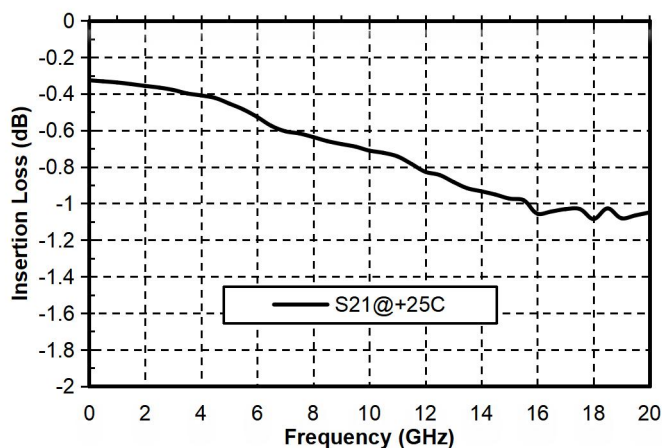
【1】 Exceeding any of these maximum limits may cause permanent damage.

Electrical performance parameters (TA = +25°C)

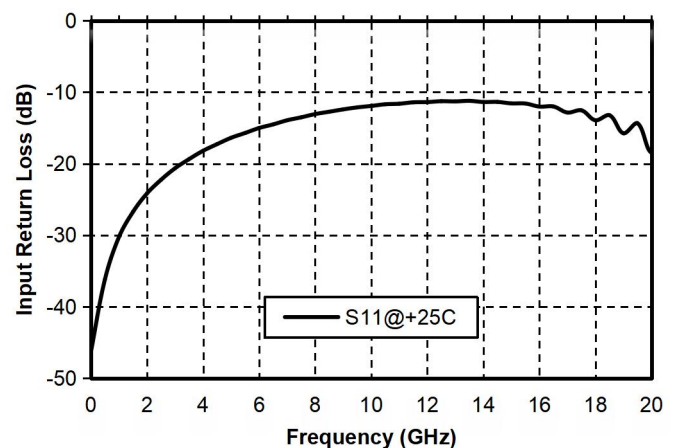
Index	Minimum	Typical Value	Maximum	Unit
Frequency Range	DC-20			G Hz
Insertion loss	-	0.8	-	dB
Input / output return loss	-	16/16	-	dB
Clipping level	-	16	-	dBm
Anti-burning power	-	-	37	dBm

Main index test curve

Insertion Loss vs. Operating Frequency

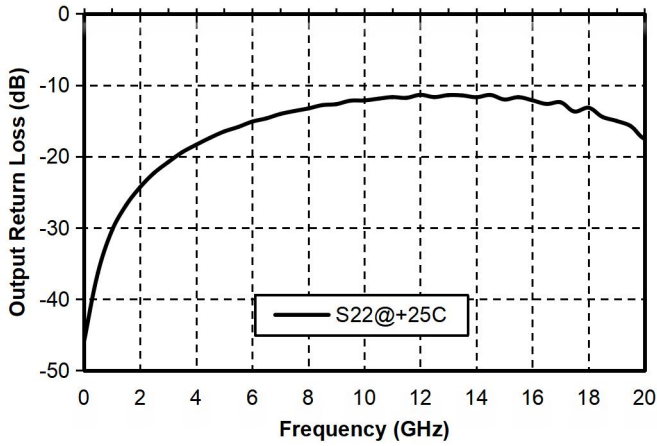


Input Standing Wave vs. Operating Frequency

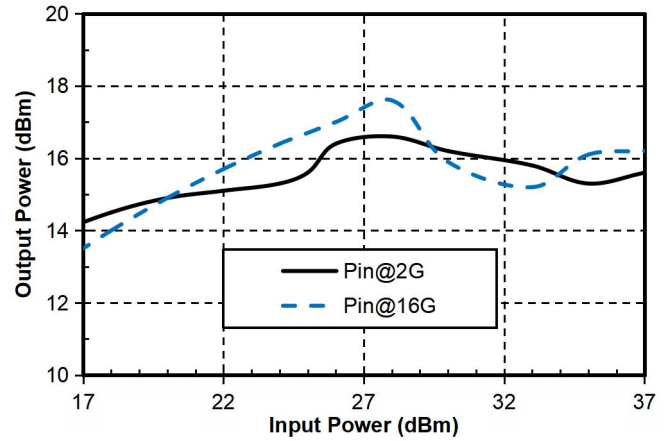


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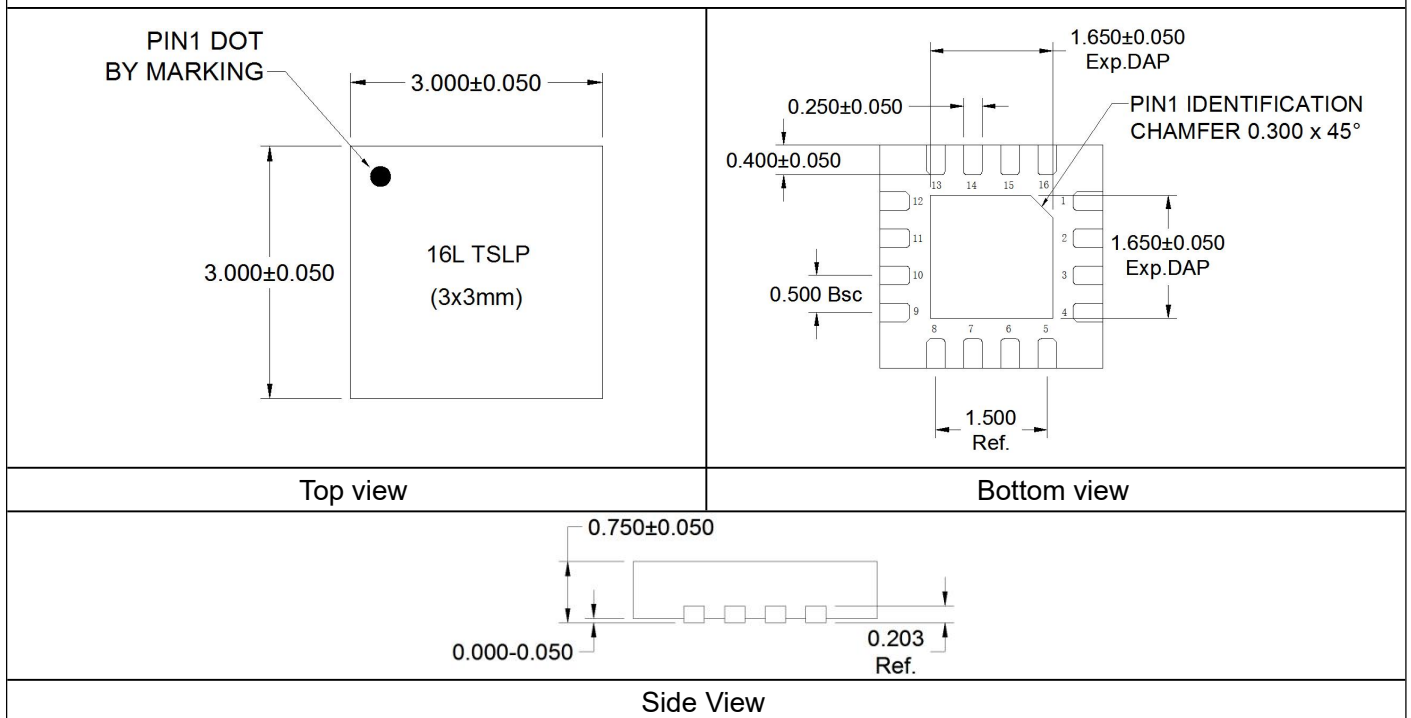
Output Standing Wave vs. Operating Frequency



Clipping level @2G & 16G



Appearance structure



The units in the figure are all millimeters, with a tolerance of ± 0.05 mm.

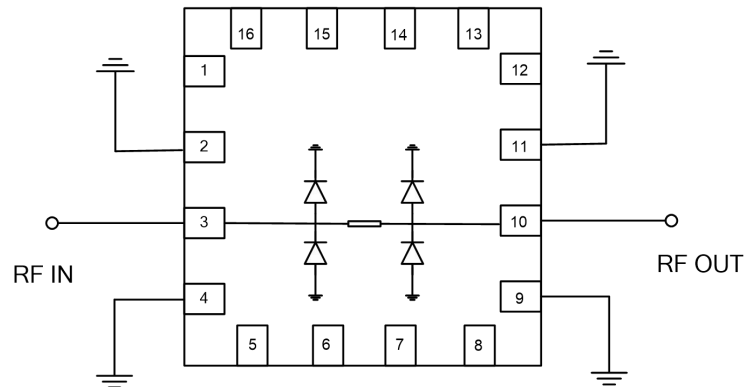
Pin Definition

Bonding point number	Function Symbol	Functional Description
3	RFIN	RF signal input terminal, external DC blocking capacitor is required
10	RFOUT	RF signal output terminal, external DC blocking capacitor is required

2, 4, 9, 11	GND	The bottom of the chip needs to be well grounded to RF and DC
1, 5~8, 12~16	NC	No welding required, can be grounded

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Recommended assembly drawing



Precautions for use

- Sealing material : Low-pressure injection molding plastic that meets ROHS specifications
- Lead frame material: copper alloy
- Lead surface plating: 100% matte tin
- Maximum reflow peak temperature: 260 °C