

Performance Features:

- Frequency range: 6GHz~18GHz
- Insertion loss: 0.3dB
- Limiting level: 17dBm
- Input/output voltage standing wave ratio: 1.3/1.3
- Endurance power: 4W (CW)
- Chip size: 1.62mm×0.74mm×0.10mm

Product Description:

CW-LM0618 is a GaAs process broadband limiter chip. Its band range covers 6.0-18GHz, insertion loss is less than 0.5dB, and input-output voltage standing wave ratio is less than 1.3.

Electrical parameters: (TA=25°C)

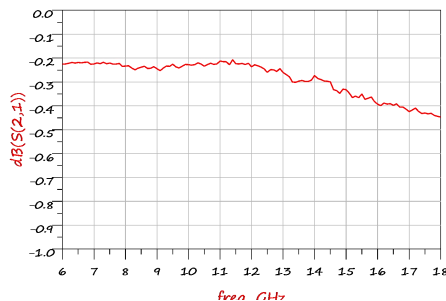
Indicators	Minimum	Typical value	Maximum value	Units
Frequency range	6-18			GHz
Insertion loss	-	0.3	0.5	dB
Enter the standing wave ratio	-	-	1.3	-
Output standing wave ratio	-	-	1.3	-
Limiting level	-	17	-	dBm

Use limiting parameters:

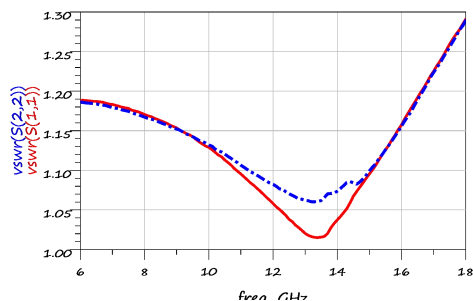
Maximum input power	37dBm
Storage temperature	-65°C~150°C
Service temperature	-55°C~125°C

Typical curve:

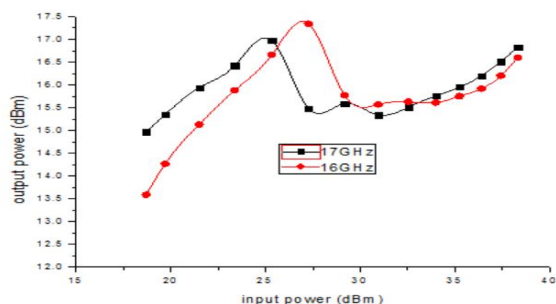
Insertion loss



standing wave ratio



Limiting level

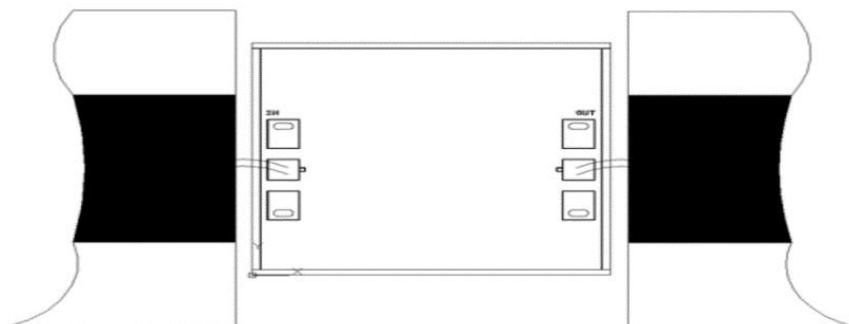


Size drawing: (unit μm)



Note: All sizes are in (μm) and the press-point size is $100 \times 100 \mu\text{m}^2$

Suggested assembly drawing:



Instructions:

1. Assembly in a purified environment;
2. GaAs material is very brittle, chip surface is easy to be damaged, do not touch the surface, must be careful when using;
3. Input and output with two bonding lines (diameter of 25 μ m), the bonding line as short as possible, not more than 300 μ m;
4. The back of the chip must be grounded;
5. Sintered with 80/20 gold tin. The sintering temperature should not exceed 300°C, and the sintering time should not exceed 30 seconds as short as possible;
6. This product belongs to electrostatic sensitive device, pay attention to anti-static when storing and using;
7. Dry and nitrogen storage environment;
8. Do not try to clean the surface of the chip by dry or wet chemical methods;
9. Contact the supplier if you have any problems.