# CW

#### Performance Characteristics:

- Frequency range: 10GHz~18GHz
- Insertion loss: 0.6dB
- Limiting level: 17dBm
- Input/output voltage standing wave ratio: 1.6/1.6
- Resistant power: 20W+ (PW=2ms,DC=20%)
- Chip size: 1.4mm×1.25mm×0.10mm(can be made into 1.4×0.85)

#### **Product Description:**

CW-LM1018 is a GaAs process broadband limiter chip.lts band range covers 10GHz-18GHz, insertion loss is I ess than 0.6dB, and input-output voltage standing wave ratio is less than 1.6.

#### Electrical parameters: (TA=25°C)

Indicators	Minimum	Typical value	Maximum value	Units
Frequency range	10-18			GHz
Insertion loss	-	0.5	0.6	dB
Enter the standing wave ratio	-	-	1.6	-
Output standing wave ratio	-	-	1.6	-
Limiting level	-	17	-	dBm

# Use limit parameters: (Exceeding any of the above maximum limits is likely to cause permanent damage.)

Maximum input power	43.5dBm
Storage temperature	-65℃-150℃
Service temperature	-55℃-125℃

#### Typical curve:

Insertion loss

standing wave ratio



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## Chip size diagram: (unit µm)( two size options)



Note: All sizes are in (um) and the press-point size is  $100 \times 100$  um<sup>2</sup>

# Proposed assembly drawing for the chip:



## 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  $25\mu m$ ), the bonding line as short as possible, not more than 300  $\mu m$ ;

4. The back of the chip must be grounded;

5 Sintered with 80/20 gold tin. The sintering temperature should not exceed 300  $^{\circ}$ 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.

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