

**Performance Characteristics:**

- Band: DC-40GHz
- Attenuation: 15dB
- Flatness of attenuation:  $\pm 0.3$ dB
- Input/output return loss: 20dB
- Chip size: 0.79mm $\times$ 0.57mm $\times$ 0.1mm

**Product Description:**

CW-AT40A-15 is a GaAs MMIC 15dB fixed attenuator chip. The fixed attenuator chip covers the frequency range of DC~40GHz, the attenuation is 15dB, and the input and output echo is less than 20dB.

**Electrical parameters:** ( TA=25°C,VD=+5V)

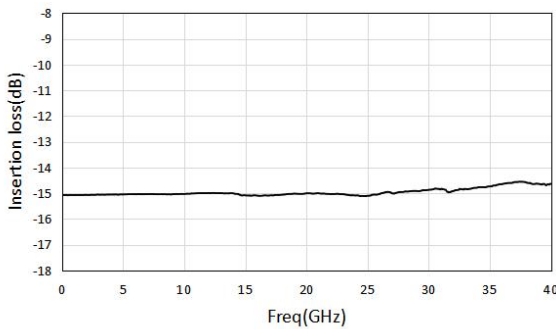
Index	Minimum	Typical value	Maximum value	Units
Frequency range	DC~40			GHz
Amount of attenuation	-	15	-	dB
Decaying amount flatness	-	$\pm 0.3$	-	dB
Input return loss	20	-	-	dB
Output return loss	20	-	-	dB

**Use limit parameters:**

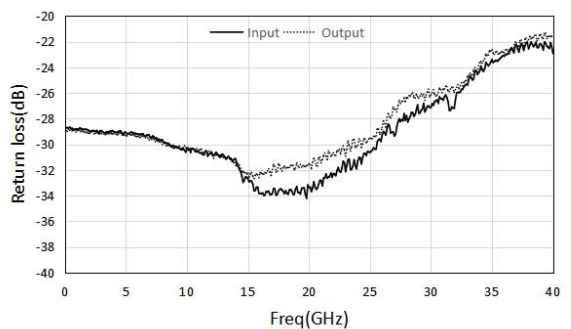
Input power	+27dBm
Storage temperature	-65°C~150°C
Service temperature	-55°C~85°C

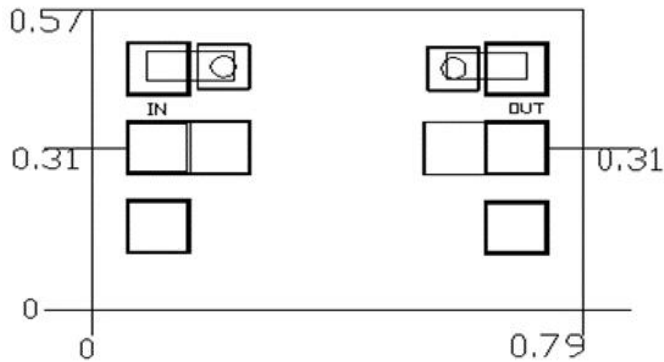
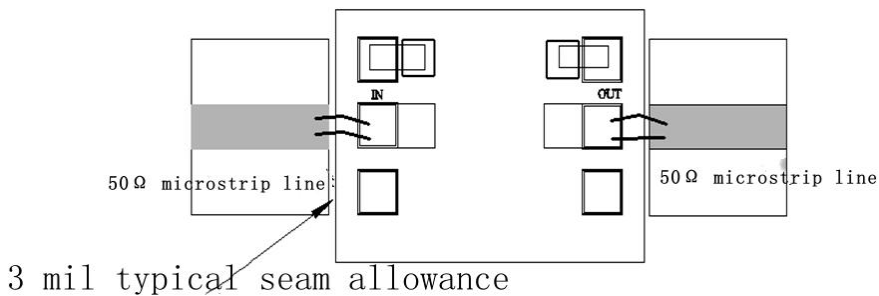
**Typical curve:**

Insertion loss



return loss



**Size drawing: (unit mm)****Suggested assembly drawing:****Instructions:**

**Storage:** The chip must be placed in a container with electrostatic protection and stored in a nitrogen environment.

**Cleaning treatment:** The bare chip must be operated and used in a purified environment. It is forbidden to use liquid cleaning agent to clean the chip.

**Electrostatic protection:** Strictly comply with the ESD protection requirements to avoid electrostatic damage to the components.

**General operation:** Use vacuum chuck or precision pointed tweezers to pick up the chip. Avoid touching the surface of the chip with tools or fingers during handling.

**Mounting operation:** The chip can be installed using AuSn solder eutectic welding or conductive adhesive bonding process. The mounting surface must be clean and flat.

**Bonding operation:** Input and output with 2 (recommended diameter of 25um gold wire) bonding wire, bonding wire length less than 250um is optimal. It is recommended to use the smallest possible ultrasonic energy. Bonding begins at the pressure point on the chip and ends at the package (or substrate).