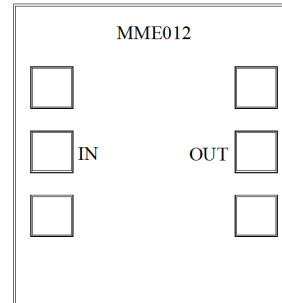




### Features

- Frequency: 4-18GHz
- Insertion Loss: 1.2dB
- Equalization: 8.5dB
- Input/Output Return Loss: 20dB
- Input/Output: 50Ω
- Die Size: 0.65 x 0.71 x 0.1 mm



### Introduction

- MME013T is GaAs MMIC Equalizer die, widely used to improve in-band fluctuations and equalize amplitude characteristics. The die is grounded through the backside metal via hole, and influence of gold wire bonding at input and output are considered in design phase. It is recommended to use two 25μm diameter gold wire bonds, and the bond wire length is about 300μm.

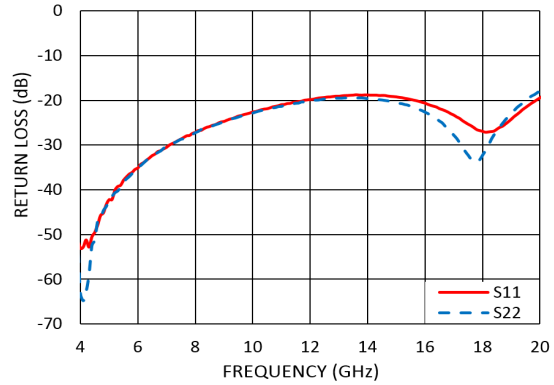
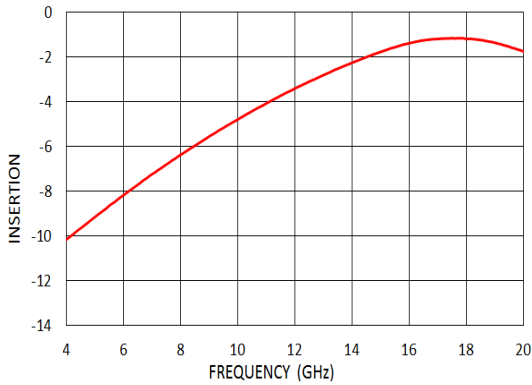
### Electrical Specifications

TA = +25°C

| Parameters     | Min. | Typ. | Max. | Units |
|----------------|------|------|------|-------|
| Frequency      | 4    |      | 18   | GHz   |
| Insertion Loss |      | 1.2  |      | dB    |
| Equalization   |      | 8.5  |      | dB    |
| Return Loss    |      | 20   |      | dB    |

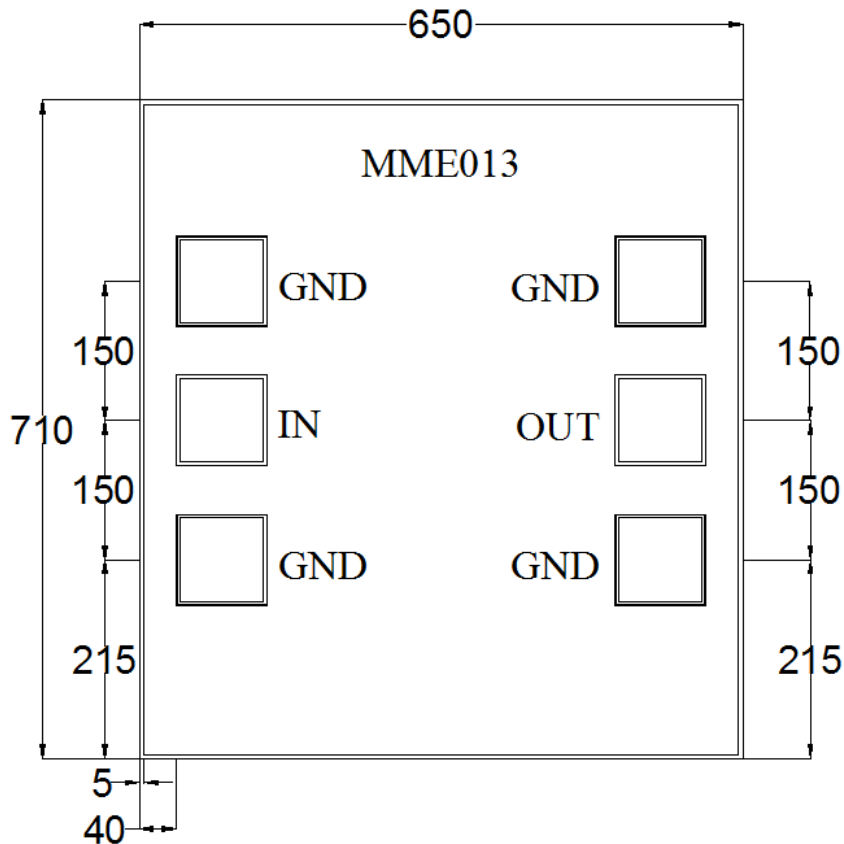


### Measurement Plots: S-parameters



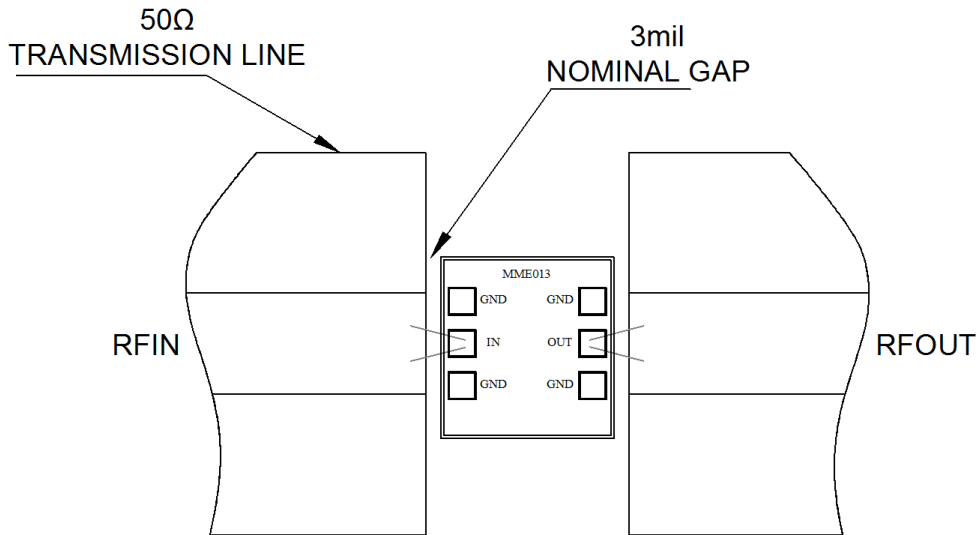
### Outline Drawing:

All Dimensions in  $\mu\text{m}$





### Assembly Drawing



### Pad Description

| No | Function   | Description                                |
|----|------------|--|
| 1  | IN         | RF signal terminal                         |
| 2  | OUT        | RF signal terminal                         |
| 3  | Die Bottom | Die bottom must be connected to RF ground. |

### Maximum Ratings:

1. Maximum input power: +30dBm
2. Operating temperature: -55°C to +85°C
3. Storage temperature: -65°C to +150°C