

## TECHNICAL DATA

### ► Electrical Data

|                   |             |
|-------------------|-------------|
| Frequency Range   | 900~1300MHz |
| Insertion Loss    | 0.2dB max   |
| VSWR              | 1.2:1 max   |
| Isolation         | 28dB min    |
| Phase Balance     | ±2°         |
| Amplitude Balance | ±0.35dB max |
| Power Handling    | 500W        |

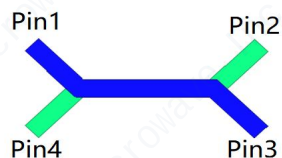
### ► Mechanical Data

|                |                                             |
|----------------|---------------------------------------------|
| Dimensions     | 34×13×4.5mm                                 |
| Connector Type | SMD                                         |
| Surface Finish | Immersion Gold                              |
|                | -Prevent surface from oxidation and scratch |

### ► Environmental Data

|                       |            |
|-----------------------|------------|
| Operating Temperature | -55℃~+105℃ |
|-----------------------|------------|

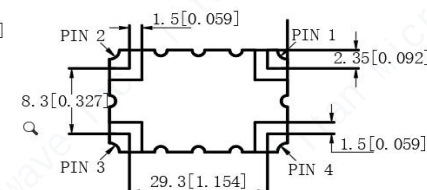
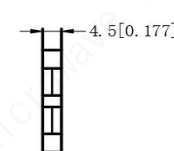
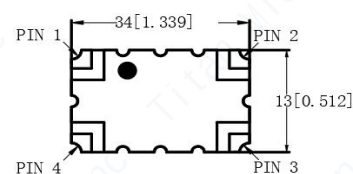
## Pin Configuration



Top View

Side View

Bottom View



| Configuration | Pin 1      | Pin 2      | Pin 3      | Pin 4      |
|---------------|------------|------------|------------|------------|
| Splitter      | Input      | Isolated   | -3dB∠θ-90° | -3dB∠θ     |
| Splitter      | Isolated   | Input      | -3dB∠θ     | -3dB∠θ-90° |
| Splitter      | -3dB∠θ-90° | -3dB∠θ     | Input      | Isolated   |
| Splitter      | -3dB∠θ     | -3dB∠θ-90° | Isolated   | Input      |
| Combiner      | A∠θ-90°    | A∠θ        | Isolated   | Output     |
| Combiner      | A∠θ        | A∠θ-90°    | Output     | Isolated   |
| Combiner      | Isolated   | Output     | A∠θ-90°    | A∠θ        |
| Combiner      | Output     | Isolated   | A∠θ        | A∠θ-90°    |

| REV | DESCRIPTION OF REVISION | By     | DATE       | APPROVED |
|-----|-------------------------|--------|------------|----------|
| A   | INITIAL RELEASE         | C. Cai | 2022/11/22 | C. Chen  |

## Notes:

- ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
- CUSTOMER OUTLINE DRAWING FOR REFERENCE ONLY

|                                      |
|--------------------------------------|
| DRAWN: L. Ma 22/11/22                |
| ENGINEER: J. Zhu 22/11/22            |
| APPROVED: C. Chen 22/11/22           |
| TOLERANCE UNLESS OTHERWISE SPECIFIED |
| x ±0.50 [0.019"]                     |
| .x ±0.20 [0.008"]                    |
| .xx ±0.10 [0.004"]                   |
| ANGLES ±1°                           |

## TITLE:

SMD 3dB 90° High Power  
Hybrid Coupler,  
900-1300MHz, 500W

## PART No.:

TMHC1100D03



www.titan-microwave.com



DIMENSIONS IN MILLIMETERS(mm)

|             |        |               |           |
|-------------|--------|---------------|-----------|
| SIZE:<br>A4 | SCALE: | SHEET:<br>1/1 | REV:<br>A |
|-------------|--------|---------------|-----------|