

## TECHNICAL DATA

### ► Electrical Data

|                   |              |
|-------------------|--------------|
| Frequency Range   | 1700~2300MHz |
| Insertion Loss    | 0.2dB max    |
| VSWR              | 1.2:1 max    |
| Isolation         | 20dB min     |
| Phase Balance     | ±1.5°        |
| Amplitude Balance | ±0.25dB max  |
| Power Handling    | 100W         |

### ► Mechanical Data

|                |                                             |
|----------------|---------------------------------------------|
| Dimensions     | 6.35×5.08×2.0mm                             |
| Connector Type | SMD                                         |
| Surface Finish | Immersion Gold                              |
|                | -Prevent surface from oxidation and scratch |

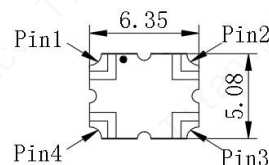
### ► Environmental Data

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

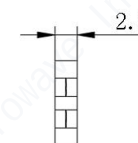
## Pin Configuration



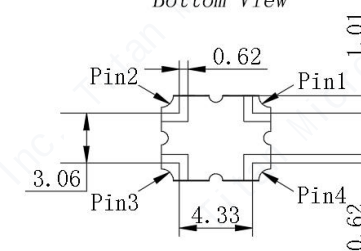
Top View



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°    |

## Notes:

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

|                                      |
|--------------------------------------|
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| 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,  
1700~2300MHz, 100W

## PART No.:

TMHC2000P03



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DIMENSIONS IN MILLIMETERS(mm)

SIZE:  
A4

SCALE:

SHEET:  
1/1

REV:  
A