

## TECHNICAL DATA

### ► Electrical Data

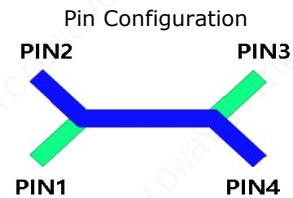
|                   |             |
|-------------------|-------------|
| Frequency Range   | 200~1000MHz |
| Insertion Loss    | 0.35dB max  |
| VSWR              | 1.1:1 max   |
| Isolation         | 25dB min    |
| Phase Balance     | ±3°         |
| Amplitude Balance | ±0.75dB max |
| Power Handling    | 150W        |

### ► Mechanical Data

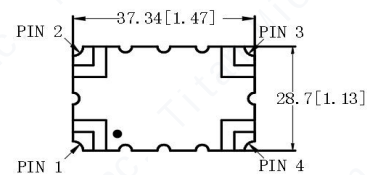
|                |                                             |
|----------------|---------------------------------------------|
| Dimensions     | 37.34×28.7×4.6mm                            |
| Connector Type | SMD                                         |
| Surface Finish | Immersion Gold                              |
|                | -Prevent surface from oxidation and scratch |

### ► Environmental Data

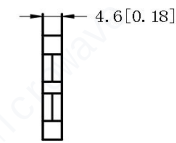
|                       |            |
|-----------------------|------------|
| Operating Temperature | -55℃~+105℃ |
|-----------------------|------------|



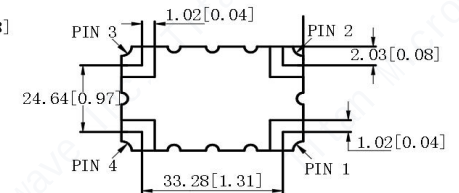
TOP VIEW



SIDE VIEW



BOTTOM VIEW



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

#### 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,  
200-1000MHz, 150W

#### PART No.:

TMHC0610W03



www.titan-microwave.com



DIMENSIONS IN MILLIMETERS(mm)

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