

| REV | DESCRIPTION OF REVISION | By     | DATE      | APPROVED |
|-----|-------------------------|--------|-----------|----------|
| A   | INITIAL RELEASE         | C. Cai | 2022/4/16 | C. Chen  |

## TECHNICAL DATA

### ► Electrical Data

|                 |           |
|-----------------|-----------|
| Frequency Range | 90~520MHz |
| Insertion Loss  | 0.1dB max |
| VSWR            | 1.1:1 max |
| Coupling        | 50±1.0dB  |
| Directivity     | 25dB min  |
| Power Handling  | 200W(CW)  |

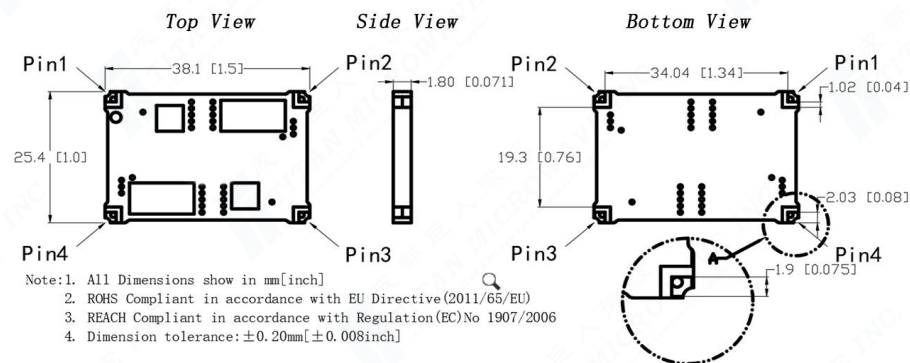
### ► Mechanical Data

|                |                 |
|----------------|-----------------|
| Dimensions     | 38.1×25.4×1.8mm |
| Connector Type | SMD             |
| Surface Finish | Immersion Gold  |

### ► Environmental Data

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

### Pin Configuration



| Pin 1        | Pin 2             | Pin 3        | Pin 4             |
|--------------|-------------------|--------------|-------------------|
| Input        | Reflected Coupled | Transmission | Forward Coupled   |
| Transmission | Forward Coupled   | Input        | Reflected Coupled |

#### Notes:

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

|                                      |       |          |
|--------------------------------------|-------|----------|
| DRAWN: L. Ma 16/04/22                |       |          |
| ENGINEER: J. Zhu 16/04/22            |       |          |
| APPROVED: C. Chen 16/04/22           |       |          |
| TOLERANCE UNLESS OTHERWISE SPECIFIED |       |          |
| x                                    | ±0.50 | [0.019"] |
| .x                                   | ±0.20 | [0.008"] |
| .xx                                  | ±0.10 | [0.004"] |
| ANGLES                               | ±1°   |          |

#### TITLE:

SMD Directional Coupler,  
90-520MHz,  
50dB, 200W

#### PART No.:

TMDC0300W50



[www.titan-microwave.com](http://www.titan-microwave.com)



DIMENSIONS IN MILLIMETERS(mm)

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