

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

## TECHNICAL DATA

### ► Electrical Data

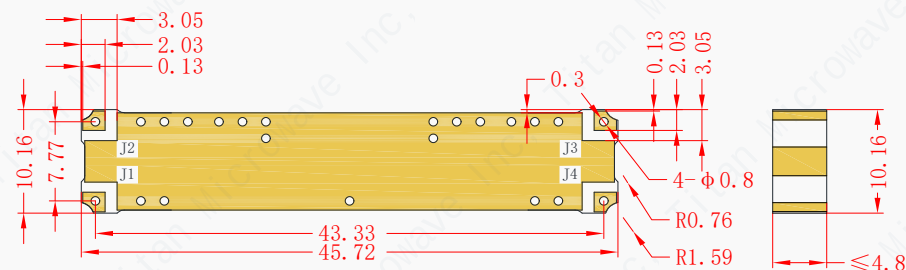
|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Frequency Range         | 800~4200MHz                                       |
| Insertion Loss(average) | 0.5dB max@1000~4000MHz<br>0.8dB max@800~4200MHz   |
| VSWR                    | 1.3:1 max@1000~4000MHz<br>1.5:1 max@800~4200MHz   |
| Isolation               | 18dB min@1000~4000MHz<br>15dB min@800~4200MHz     |
| Phase Balance           | ±5° max@1000~4000MHz<br>±8° max@800~4200MHz       |
| Amplitude Unbalance     | ±0.6dB max@1000~4000MHz<br>±1.0dB max@800~4200MHz |
| Power Handling          | 100W(CW)                                          |

### ► Mechanical Data

|                |                       |
|----------------|-----------------------|
| Dimensions     | 45.72×10.16×4.8mm max |
| Connector Type | SMD                   |
| Surface Finish | Immersion Gold        |

### ► Environmental Data

|                       |           |
|-----------------------|-----------|
| Operating Temperature | -55℃~+85℃ |
|-----------------------|-----------|



| INPUT | J1        | J2        | J3        | J4        |
|-------|-----------|-----------|-----------|-----------|
| J1    | -----     | -3dB<0°   | -3dB<-90° | Isolation |
| J2    | -3dB<0°   | -----     | Isolation | -3dB<-90° |
| J3    | -3dB<-90° | Isolation | -----     | -3dB<0°   |
| J4    | Isolation | -3dB<-90° | -3dB<0°   | -----     |

#### 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 90 Degree Hybrid  
Coupler, 3dB, 800-  
4200MHz, 100W

#### PART No.:

TM0175-3



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DIMENSIONS IN MILLIMETERS(mm)

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