

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

## TECHNICAL DATA

### ► Electrical Data

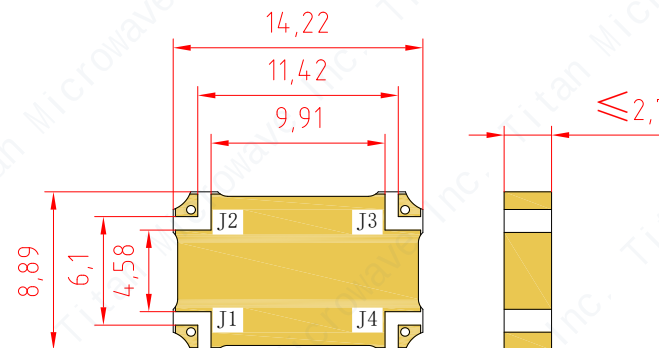
|                         |              |
|-------------------------|--------------|
| Frequency Range         | 1000~1700MHz |
| Insertion Loss(average) | ≤0.2dB       |
| VSWR                    | ≤1.25:1      |
| Isolation               | ≥20dB        |
| Phase Balance           | ≤±3°         |
| Amplitude Balance       | ≤±0.4dB      |
| Power Handling          | 200W(CW)     |

### ► Mechanical Data

|                |                      |
|----------------|----------------------|
| Dimensions     | 14.22×8.89×2.7mm max |
| Connector Type | SMD                  |
| Surface Finish | Immersion Gold       |

### ► Environmental Data

|                       |            |
|-----------------------|------------|
| Operating Temperature | -55℃~+125℃ |
|-----------------------|------------|



| 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° Hybrid Coupler,  
3dB, 1000-1700MHz,  
200W

#### PART No.:

TM013053-3



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



DIMENSIONS IN MILLIMETERS(mm)

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