

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

## TECHNICAL DATA

### Electrical Data

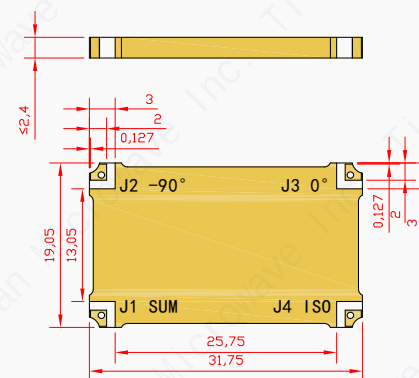
|                   |                                                 |
|-------------------|-------------------------------------------------|
| Frequency Range   | 600~6000MHz                                     |
| Insertion Loss    | 1.0dB max                                       |
| VSWR              | 1.4:1 typ, 1.5:1 max                            |
| Isolation         | 16.5dB min, 18dB typ                            |
| Phase Balance     | ±6° max                                         |
| Amplitude Balance | ±0.9dB max@700~6000MHz<br>±1.1dB max@600~700MHz |
| Power Handling    | 100W(CW)                                        |

### Mechanical Data

|                |                       |
|----------------|-----------------------|
| Dimensions     | 31.75×19.05×2.4mm max |
| Connector Type | SMD                   |
| Surface Finish | Immersion Gold        |

### Environmental Data

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



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

#### Notes:

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

|                                      |       |          |                                                                          |  |                                                                                                                                                                                                                                   |               |
|--------------------------------------|-------|----------|--------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| DRAWN: L. Ma 16/04/22                |       |          | TITLE:<br><br>SMD 90 Degree Hybrid<br>Coupler, 3dB,<br>600-6000MHZ, 100W |  | <div> 成都巨人微波<br/>TITAN MICROWAVE INC.<br/>- A Professional RF &amp; Microwave Components Supplier -</div> <div>www.titan-microwave.com</div> |               |
| ENGINEER: J. Zhu 16/04/22            |       |          |                                                                          |  |                                                                                                                                                                                                                                   |               |
| APPROVED: C. Chen 16/04/22           |       |          | PART No.:<br><br>TM0156-3-100                                            |  | <div> </div> DIMENSIONS IN MILLIMETERS(mm)              |               |
| TOLERANCE UNLESS OTHERWISE SPECIFIED |       |          |                                                                          |  |                                                                                                                                                                                                                                   |               |
| x                                    | ±0.50 | [0.019"] |                                                                          |  |                                                                                                                                                                                                                                   |               |
| .x                                   | ±0.20 | [0.008"] |                                                                          |  |                                                                                                                                                                                                                                   |               |
| .xx                                  | ±0.10 | [0.004"] |                                                                          |  |                                                                                                                                                                                                                                   |               |
| ANGLES                               | ±1°   |          |                                                                          |  | SIZE:<br>A4                                                                                                                                                                                                                       | SCALE:<br>1/1 |
|                                      |       |          |                                                                          |  | SHEET:<br>1/1                                                                                                                                                                                                                     | REV:<br>A     |