

| REV | DESCRIPTION OF REVISION | By     | DATE      | APPROVED |
|-----|-------------------------|--------|-----------|----------|
| A   | INITIAL RELEASE         | C. Cai | 2025/4/30 | C. Chen  |

## TECHNICAL DATA

### ► Electrical Data

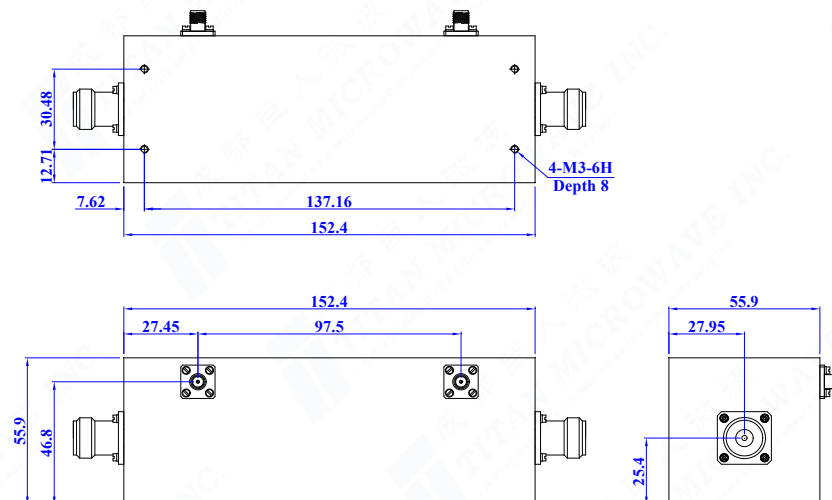
|                    |            |
|--------------------|------------|
| Frequency Range    | 1~500MHz   |
| Coupling           | 50±1.0dB   |
| Coupling Flatness  | ±1.0dB max |
| Insertion Loss     | 0.2dB max  |
| Primary Line VSWR  | 1.3:1 max  |
| Directivity        | 20dB min   |
| Impedance          | 50 Ohms    |
| Primary Line Power | 1000W(CW)  |

### ► Mechanical Data

|                         |                      |
|-------------------------|----------------------|
| Primary Line Connectors | N-Female             |
| Coupled Connectors      | SMA-Female           |
| Housing Material        | Aluminum             |
| Surface Finish          | Conductive Oxidation |
| Dimensions              | 152.4×55.9×55.9mm    |

### ► Environmental Data

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



#### Notes:

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

|                                      |
|--------------------------------------|
| DRAWN: L. Ma 30/04/25                |
| ENGINEER: J. Zhu 30/04/25            |
| APPROVED: C. Chen 30/04/25           |
| TOLERANCE UNLESS OTHERWISE SPECIFIED |
| x ±0.50 [0.019"]                     |
| .x ±0.20 [0.008"]                    |
| .xx ±0.10 [0.004"]                   |
| ANGLES ±1°                           |

**TITLE:**  
Dual Directional Coupler,  
1~500MHz, 50dB, 1000W,  
N-Female &  
SMA-Female

**PART No.:**  
TDDC-1M500M-50NS1KW

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DIMENSIONS IN MILLIMETERS(mm)

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