

| REV | DESCRIPTION OF REVISION | By     | DATE      | APPROVED |
|-----|-------------------------|--------|-----------|----------|
| A   | INITIAL RELEASE         | C. Cai | 2025/3/11 | C. Chen  |

## TECHNICAL DATA

### ► Electrical Data

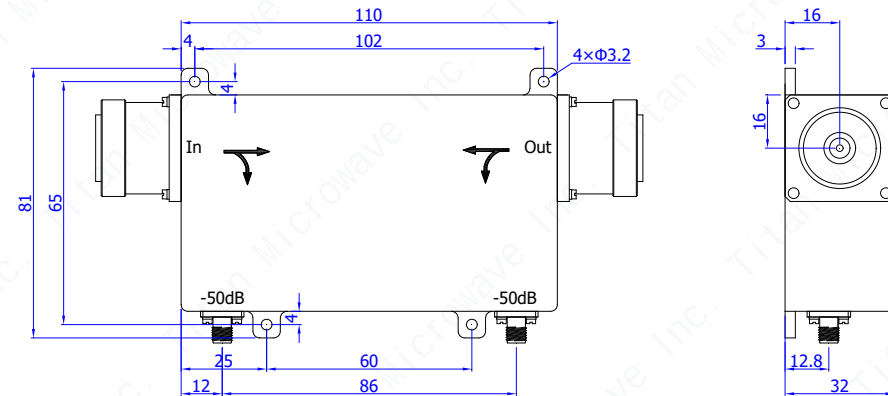
|                    |            |
|--------------------|------------|
| Frequency Range    | 20~400MHz  |
| Coupling           | 50±1.0dB   |
| Coupling Flatness  | ±0.8dB max |
| Insertion Loss     | 0.1dB max  |
| Primary Line VSWR  | 1.2 max    |
| Directivity        | 20dB min   |
| Impedance          | 50 Ohms    |
| Primary Line Power | 4000W(CW)  |

### ► Mechanical Data

|                         |                      |
|-------------------------|----------------------|
| Input/Output Connectors | DIN 7/16(L29)-Female |
| Coupled Connector       | SMA-Female           |
| Surface Finish          | Conductive Oxidation |
| Dimensions              | 110×65×32mm          |

### ► Environmental Data

|                       |           |
|-----------------------|-----------|
| Operating Temperature | -55℃~+75℃ |
|-----------------------|-----------|



#### Notes:

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

|                                      |                                                                                                         |                                                                                                                     |        |        |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------|--------|
| DRAWN: L. Ma 11/03/25                | TITLE:<br>Dual Directional Coupler,<br>0.02~0.4GHz, 50dB, 4000W<br>DIN 7/16(L29)-Female &<br>SMA-Female | <br>www.titan-microwave.com    |        |        |
| ENGINEER: J. Zhu 11/03/25            |                                                                                                         |                                                                                                                     |        |        |
| APPROVED: C. Chen 11/03/25           |                                                                                                         |  DIMENSIONS IN MILLIMETERS(mm) |        |        |
| TOLERANCE UNLESS OTHERWISE SPECIFIED | PART No.:                                                                                               | SIZE:                                                                                                               | SCALE: | SHEET: |
| x ±0.50 [0.019"]                     | TDDC-00020040-50DS4KW                                                                                   | A4                                                                                                                  |        | 1/1    |
| .x ±0.20 [0.008"]                    |                                                                                                         |                                                                                                                     |        | REV:   |
| .xx ±0.10 [0.004"]                   |                                                                                                         |                                                                                                                     |        | A      |
| ANGLES ±1°                           |                                                                                                         |                                                                                                                     |        |        |