

# Technical proposal for JX-PD-800M3800M-2N Power Divider

## Revision History

| Version | Date       | Author | Revision description | Comment |
|---------|------------|--------|----------------------|---------|
| V1.0    | 2018/05/11 | Lee    | Created              | /       |
|         |            |        |                      |         |
|         |            |        |                      |         |
|         |            |        |                      |         |

## Table of content

|   |   |
|---|---|
| Technical proposal for JX-PD-800M3800M-2N Power Divider ..... | 1 |
| 1. Mechanical layout.....                                     | 2 |
| 2. Electrical analysis.....                                   | 3 |

## Figures

|  |   |
|--|---|
| Figure 1 JX-PD-800M3800M-2N front panel layout ..... | 2 |
|--|---|

## Tables

|  |   |
|--|---|
| Table 1 Mechanical Specifications @ JX-PD-800M3800M-2N ..... | 2 |
| Table 2 Electrical specifications @ JX-PD-800M3800M-2N ..... | 3 |

**JING XIN MICROWAVE TECHNOLOGY CO.,LTD**

E-mail: [sales@cdjx-mw.com](mailto:sales@cdjx-mw.com) Web: <http://www.cdjx-mw.com>

TEL: +86-28-85026087 FAX: +86-28-65941390 Zip Code:610045

Add: No.65,West 1st Wu Ke Road, Wu Hou District, Cheng Du City, Si Chuan Province, China.

## 1. Mechanical layout

Table 1 Mechanical Specifications @ JX-PD-800M3800M-2N

|                      |   |
|----------------------|---|
| Dimension            | L x W x H: 100mm x 45mm x 20mm              |
| Connector Type       | N-Female                                    |
| Housing Finish Color | Sandblasting natural color conductive oxide |
| Applications         | IP65  |
| Notes                | Material shall be RoHS 6/6                  |

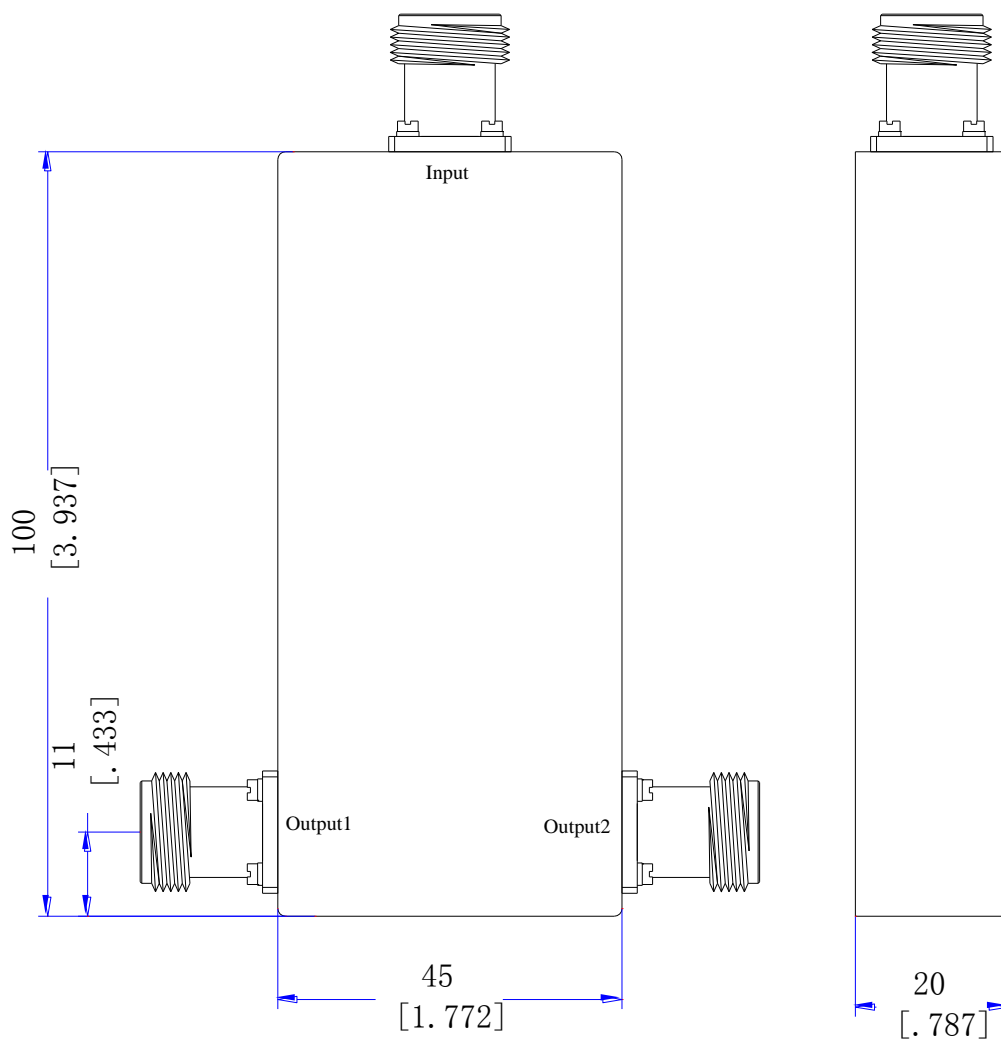


Figure 1 JX-PD-800M3800M-2N front panel layout

**JING XIN MICROWAVE TECHNOLOGY CO.,LTD**

E-mail: [sales@cdjx-mw.com](mailto:sales@cdjx-mw.com) Web: <http://www.cdjx-mw.com>

TEL: +86-28-85026087 FAX: +86-28-65941390 Zip Code:610045

Add: No.65,West 1st Wu Ke Road, Wu Hou District, Cheng Du City, Si Chuan Province, China.

## 2. Electrical analysis

Table 2 Electrical specifications @ JX-PD-800M3800M-2N

| SN | Parameters            | Specifications                             |
|----|-----------------------|--|
| 1  | Frequency Range       | 800~3800 MHz                               |
| 2  | Insertion Loss        | $\leq 3.5\text{dB}$                        |
| 3  | Input Port VSWR       | $\leq 1.25: 1$                             |
| 4  | Output Port VSWR      | $\leq 1.25: 1$                             |
| 5  | Isolation             | $\geq 20\text{dB}$                         |
| 6  | Amplitude Balance     | $\pm 0.3\text{dB}$                         |
| 7  | Phase Balance         | $\pm 3^\circ$                              |
| 8  | PIM3                  | $\leq -150\text{dBc}@2*33\text{dBm}$       |
| 9  | Impedance             | 50 Ohms                                    |
| 10 | Power Rating          | 50W  |
| 11 | Operation Temperature | $-30^\circ\text{C} \sim +70^\circ\text{C}$ |

**JING XIN MICROWAVE TECHNOLOGY CO.,LTD**

E-mail: [sales@cdjx-mw.com](mailto:sales@cdjx-mw.com) Web: <http://www.cdjx-mw.com>

TEL: +86-28-85026087 FAX: +86-28-65941390 Zip Code:610045

Add: No.65,West 1st Wu Ke Road, Wu Hou District, Cheng Du City, Si Chuan Province, China.