

**NDC1313M**

## High Power, High Isolation

### Features:

- \* High Power
- \* High Isolation
- \* Low Insertion Loss
- \* Low VSWR

Applications:

- \* Wireless
- \* Radar
- \* Laboratory Test

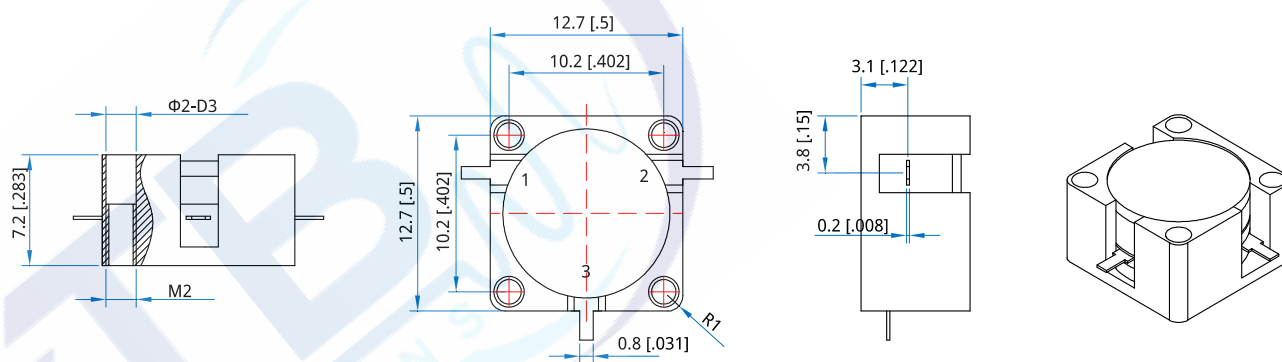
### Description

NDC1313M series Drop-In Circulators cover frequency range 1.7–6GHz. High power, high isolation and low insertion loss make it ideal for a lot of applications like amplifiers, transceivers, etc.

## Specifications

| Frequency<br>(MHz) | Bandwidth<br>(MHz) | Insertion Loss<br>(dB Max.) | Isolation<br>(dB Min.) | VSWR<br>(Max.) | Average Power<br>(W) | Temperature<br>(°C) |
|--------------------|--------------------|-----------------------------|------------------------|----------------|----------------------|---------------------|
| 1710~1785          | 75                 | 0.30                        | 23.0                   | 1.20           | 60~100               | -30~+70             |
| 1805~1880          | 75                 | 0.30                        | 23.0                   | 1.20           | 60~100               | -30~+70             |
| 1805~1920          | 115                | 0.40                        | 20.0                   | 1.25           | 60~100               | -30~+70             |
| 1880~1920          | 40                 | 0.30                        | 23.0                   | 1.20           | 60~100               | -30~+70             |
| 2110~2170          | 60                 | 0.30                        | 23.0                   | 1.20           | 60~100               | -30~+70             |
| 2300~2400          | 100                | 0.30                        | 23.0                   | 1.20           | 60~100               | -30~+70             |
| 2400~2500          | 100                | 0.30                        | 23.0                   | 1.20           | 60~100               | -30~+70             |
| 2500~2700          | 200                | 0.30                        | 23.0                   | 1.20           | 60~100               | -30~+70             |
| 2700~2900          | 200                | 0.30                        | 23.0                   | 1.20           | 60~100               | -30~+70             |
| 2900~3100          | 200                | 0.30                        | 23.0                   | 1.20           | 60~100               | -30~+70             |
| 3000~5000          | 200                | 0.35                        | 20.0                   | 1.25           | 60~100               | -30~+70             |
| 3250~3450          | 200                | 0.35                        | 20.0                   | 1.25           | 60~100               | -30~+70             |
| 3300~3500          | 200                | 0.35                        | 20.0                   | 1.25           | 60~100               | -30~+70             |
| 3500~3650          | 150                | 0.35                        | 20.0                   | 1.25           | 60~100               | -30~+70             |
| 5100~5900          | 800                | 0.45                        | 18.0                   | 1.30           | 60~100               | -30~+70             |
| 5700~5900          | 200                | 0.40                        | 20.0                   | 1.25           | 60~100               | -30~+70             |

## Outline Drawings



Unit: mm [inch]

Tolerance:  $\pm 0.2\text{mm}$  [ $\pm 0.008\text{in}$ ]



## Drop-In Circulators

### Mechanical

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|                 |                                    |
|-----------------|------------------------------------|
| Size*1:         | 12.7*12.7*7.2mm<br>0.5*0.5*0.283in |
| Connector Type: | Strip line                         |
| Mounting:       | Φ2mm depth 3mm<br>M2               |

[1] Exclude connectors

### How To Order

**NDC1313M-X-Y-Z**  
X: Start frequency in MHz  
Y: Stop frequency in MHz  
Z: Average Power in W

#### Examples:

To order a NDC1313M series Circulator, 2400~2500MHz, 100W, specify NDC1313M-2400-2500-K1.

Customization is available upon request.

