

## QDC4545X

### High Power, High Isolation

**Features:**

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

**Applications:**

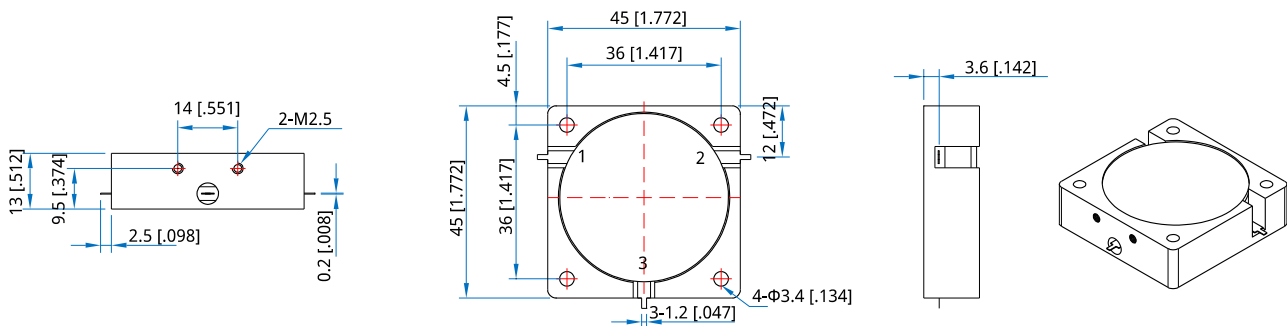
- \* Wireless
- \* Radar
- \* Laboratory Test

**Description**

QDC4545X series Drop-In Circulators cover frequency range 300~1000MHz. 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) |
|--------------------|--------------------|-----------------------------|------------------------|----------------|----------------------|---------------------|
| 300~420            | 20                 | 0.30                        | 23.0                   | 1.20           | 100~400              | -30~+70             |
| 300~420            | 30                 | 0.40                        | 20.0                   | 1.25           | 100~400              | -30~+70             |
| 300~420            | 120                | 0.60                        | 18.0                   | 1.30           | 100~400              | -30~+70             |
| 361~366            | 5                  | 0.20                        | 30.0                   | 1.15           | 100~400              | -30~+70             |
| 400~470            | 70                 | 0.40                        | 20.0                   | 1.25           | 100~400              | -30~+70             |
| 400~500            | 30                 | 0.30                        | 23.0                   | 1.20           | 100~400              | -30~+70             |
| 400~500            | 100                | 0.40                        | 20.0                   | 1.25           | 100~400              | -30~+70             |
| 500~700            | 50                 | 0.40                        | 20.0                   | 1.25           | 100~400              | -30~+70             |
| 500~700            | 150                | 0.50                        | 18.0                   | 1.30           | 100~400              | -30~+70             |
| 700~900            | 200                | 0.40                        | 20.0                   | 1.25           | 100~400              | -30~+70             |
| 700~1000           | 300                | 0.50                        | 18.0                   | 1.30           | 100~400              | -30~+70             |
| 800~1000           | 200                | 0.40                        | 20.0                   | 1.20           | 100~400              | -30~+70             |
| 800~1100           | 300                | 0.50                        | 18.0                   | 1.30           | 100~400              | -30~+70             |

**Outline Drawings**


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

**Mechanical**

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|                      |                                   |
|----------------------|-----------------------------------|
| Size <sup>*1</sup> : | 45*45*13mm<br>1.772*1.772*0.512in |
| Connector Type:      | Strip line                        |
| Mounting:            | 4-Φ3.4mm through-hole<br>2-M2.5   |

[1] Exclude connectors

**Direction Naming Rules:**

- 1 - Clockwise
- 2 - Anticlockwise

**How To Order****QDC4545X-W-X-Y-Z**

W: Start frequency in MHz

X: Stop frequency in MHz

Y: Average Power in W

Z: Direction type

**Examples:**

To order a QDC4545X series Circulator, 320~330MHz, 200W, Clockwise, specify QDC4545X-320-330-K2-1.

Customization is available upon request.