

## QDI4545X

### High Power, High Isolation

**Features:**

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

**Applications:**

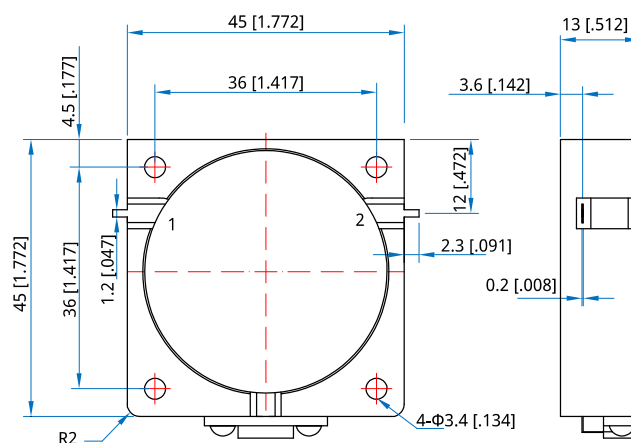
- \* Wireless
- \* Radar
- \* Laboratory Test

**Description**

QDI4545X series Drop-In Isolators cover frequency range 300~1100MHz. 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.) | Fwd Power<br>(W Max.) | Rev Power<br>(W) | Temperature<br>(°C) |
|--------------------|--------------------|-----------------------------|------------------------|----------------|-----------------------|------------------|---------------------|
| 300~420            | 20                 | 0.30                        | 23.0                   | 1.20           | 500                   | 10~100           | -30~+70             |
| 300~420            | 30                 | 0.40                        | 20.0                   | 1.25           | 500                   | 10~100           | -30~+70             |
| 300~420            | 120                | 0.60                        | 18.0                   | 1.30           | 500                   | 10~100           | -30~+70             |
| 316~366            | 50                 | 0.20                        | 30.0                   | 1.15           | 500                   | 10~100           | -30~+70             |
| 400~470            | 70                 | 0.40                        | 20.0                   | 1.25           | 500                   | 10~100           | -30~+70             |
| 400~500            | 30                 | 0.30                        | 23.0                   | 1.20           | 500                   | 10~100           | -30~+70             |
| 400~500            | 100                | 0.40                        | 20.0                   | 1.25           | 500                   | 10~100           | -30~+70             |
| 500~700            | 50                 | 0.40                        | 20.0                   | 1.25           | 500                   | 10~100           | -30~+70             |
| 500~700            | 150                | 0.50                        | 18.0                   | 1.30           | 500                   | 10~100           | -30~+70             |
| 700~900            | 200                | 0.40                        | 20.0                   | 1.25           | 500                   | 10~100           | -30~+70             |
| 700~1000           | 300                | 0.50                        | 18.0                   | 1.30           | 500                   | 10~100           | -30~+70             |
| 800~1000           | 200                | 0.40                        | 20.0                   | 1.20           | 500                   | 10~100           | -30~+70             |
| 800~1100           | 300                | 0.50                        | 18.0                   | 1.30           | 500                   | 10~100           | -30~+70             |

**Outline Drawings**


Unit: mm [inch]      Tolerance: ±0.2mm [±0.008in]

**Mechanical**

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Size\*1: 45\*45\*13mm  
1.772\*1.772\*0.512in

Connector Type: Strip line

Mounting: 4-Φ3.4mm through-hole

[1] Exclude connectors and terminations.

**Direction Naming Rules:**

- 1 - Clockwise
- 2 - Anticlockwise

**How To Order**

**QDI4545X-V-W-X-Y-Z**

V: Start frequency in MHz

W: Stop frequency in MHz

X: Forward Power in W

Y: Reverse Power in W

Z: Direction type

**Examples:**

To order a QDI4545X series Isolator, 300~420MHz, Forward power 500W, Reverse power 10W, Clockwise, specify QDI4545X-300-420-K5-10-1.

Customization is available upon request.