

## QDC5050X

### High Power, High Isolation

#### Features:

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

#### Applications:

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

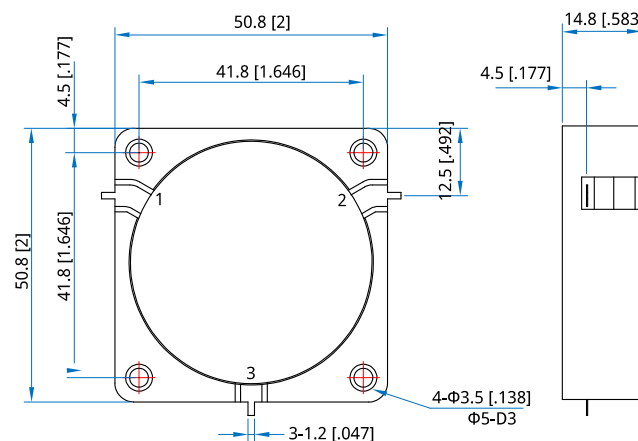
#### Description

QDC5050X series Drop-In Circulators cover frequency range 150~330MHz. 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) |
|--------------------|--------------------|-----------------------------|------------------------|----------------|----------------------|---------------------|
| 150~200            | 10                 | 0.70                        | 18.0                   | 1.30           | 100~400              | -30~+70             |
| 192~232            | 40                 | 0.60                        | 18.0                   | 1.30           | 100~400              | -30~+70             |
| 200~220            | 20                 | 0.40                        | 20.0                   | 1.25           | 100~400              | -30~+70             |
| 220~240            | 20                 | 0.40                        | 20.0                   | 1.25           | 100~400              | -30~+70             |
| 260~330            | 10                 | 0.20                        | 23.0                   | 1.20           | 100~400              | -30~+70             |
| 260~330            | 70                 | 0.40                        | 20.0                   | 1.25           | 100~400              | -30~+70             |

#### Outline Drawings



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

#### Mechanical

Size\*1: 50.8\*50.8\*14.8mm  
2\*2\*0.583in

Connector Type: Strip line

Mounting: 4-Φ3.5mm through-hole  
Φ5, depth 3mm

[1] Exclude connectors

#### Direction Naming Rules:

- 1 - Clockwise
- 2 - Anticlockwise

#### How To Order

**QDC5050X-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 QDC5050X series Circulator, 160~166MHz, 200W,  
Clockwise, specify QDC5050X-160-166-K2-1.

Customization is available upon request.