

# FDI5050X

## High Power, High Isolation

**Features:**

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

**Applications:**

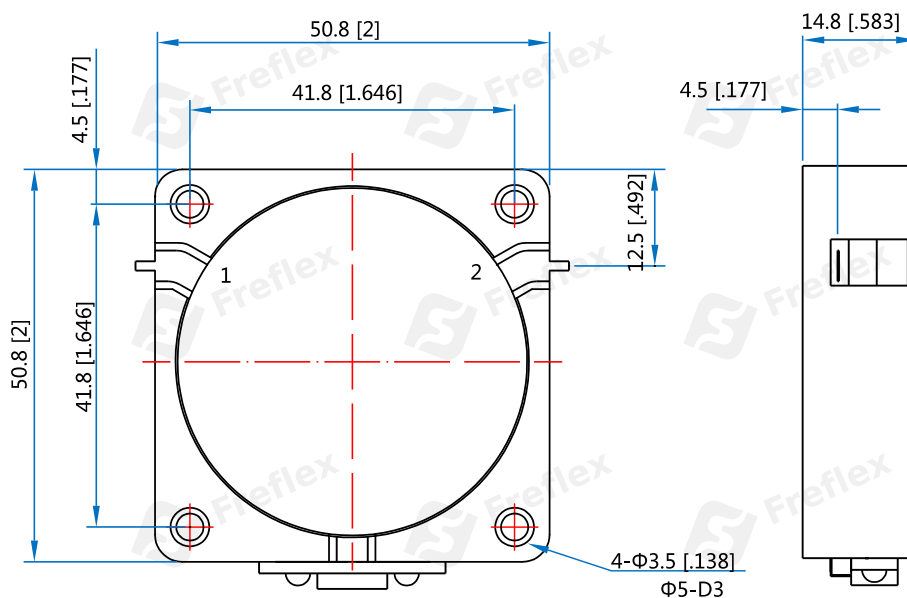
- \* Wireless
- \* Radar
- \* Laboratory Test

**Description**

FDI5050X series Drop-In Isolators cover frequency range 160~330MHz. 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.) | Fwd Power<br>(W Max.) | Rev Power<br>(W) | Temperature<br>(°C) |
|--------------------|--------------------|-----------------------------|------------------------|----------------|-----------------------|------------------|---------------------|
| 160~200            | 10                 | 0.70                        | 18.0                   | 1.30           | 500                   | 10~100           | -30~+70             |
| 192~232            | 40                 | 0.60                        | 18.0                   | 1.30           | 500                   | 10~100           | -30~+70             |
| 200~220            | 20                 | 0.40                        | 20.0                   | 1.25           | 500                   | 10~100           | -30~+70             |
| 220~240            | 20                 | 0.40                        | 23.0                   | 1.20           | 500                   | 10~100           | -30~+70             |
| 260~330            | 10                 | 0.20                        | 18.0                   | 1.30           | 500                   | 10~100           | -30~+70             |
| 260~330            | 70                 | 0.40                        | 20.0                   | 1.25           | 500                   | 10~100           | -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<br>2*2*0.583in        |
| Connector Type: | Strip line                             |
| Mounting:       | 4-Φ3.5mm through-hole<br>Φ5, depth 3mm |

[1] Exclude connectors and terminations.

**Direction Naming Rules:**

- 1 - Clockwise
- 2 - Anticlockwise

**How To Order****FDI5050X-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 FDI5050X series Isolator, 160~170MHz, Forward power 500W, Reverse power 10W, Clockwise, specify  
FDI5050X-160-170-K5-10-1.

Customization is available upon request.