# QDI2027X

## High Power, High Isolation

Features:
* High Power
* High Isolation
* Low Insertion Loss
* Low VSWR

Applications:
* Wireless
* Radar
* Laboratory Test

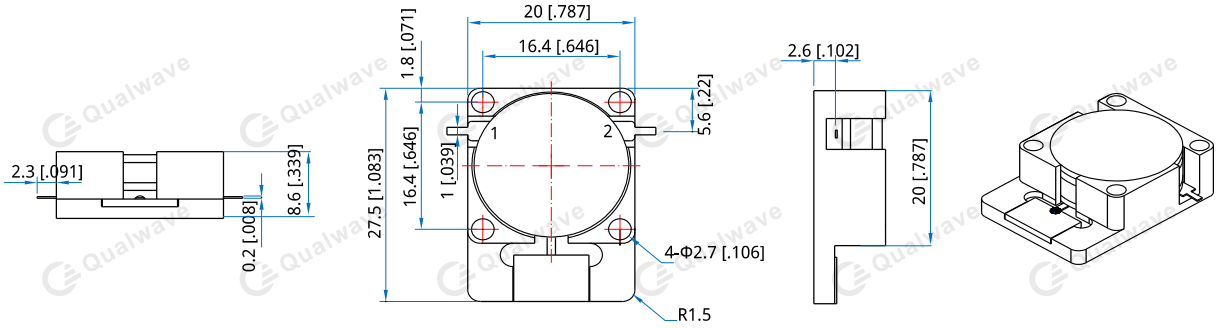
### Description

QDI2027X series Drop-In Isolators cover frequency range 600~3600MHz. High power, high isolation and low insertion loss make it ideal for a lot of applications like amplifiers, transceivers, etc.

### Specifications

| Frequency (MHz) | Bandwidth (MHz) | Insertion Loss (dB Max.) | Isolation (dB Min.) | VSWR (Max.) | Fwd Power (W Max.) | Rev Power (W) | Temperature (°C) |
|---|---|---|---|---|---|---|---|
| 600~800 | 20 | 0.40 | 23.0 | 1.20 | 150 | 100 | -30~+70 |
| 600~800 | 50 | 0.40 | 20.0 | 1.25 | 150 | 100 | -30~+70 |
| 700~1300 | 30 | 0.25 | 25.0 | 1.15 | 150 | 100 | -30~+70 |
| 700~1300 | 100 | 0.40 | 20.0 | 1.25 | 150 | 100 | -30~+70 |
| 825~875 | 50 | 0.40 | 20.0 | 1.20 | 150 | 100 | -30~+70 |
| 869-894 | 25 | 0.25 | 25.0 | 1.20 | 150 | 100 | -30~+70 |
| 885~915 | 30 | 0.25 | 25.0 | 1.20 | 150 | 100 | -30~+70 |
| 850~960 | 110 | 0.40 | 20.0 | 1.25 | 150 | 100 | -30~+70 |
| 920~960 | 40 | 0.25 | 25.0 | 1.20 | 150 | 100 | -30~+70 |
| 1030~1090 | 60 | 0.30 | 23.0 | 1.20 | 150 | 100 | -30~+70 |
| 1170~1370 | 200 | 0.50 | 18.0 | 1.30 | 100 | 100 | -30~+75 |
| 1300~3000 | 75 | 0.25 | 25.0 | 1.15 | 150 | 100 | -30~+70 |
| 1300~3000 | 100 | 0.30 | 23.0 | 1.20 | 150 | 100 | -30~+70 |
| 1300~3000 | 200 | 0.40 | 20.0 | 1.25 | 150 | 100 | -30~+70 |
| 1470~1670 | 200 | 0.50 | 18.0 | 1.30 | 100 | 100 | -30~+75 |
| 1500~1700 | 200 | 0.40 | 20.0 | 1.25 | 150 | 100 | -30~+70 |
| 1700~1900 | 200 | 0.40 | 20.0 | 1.25 | 150 | 100 | -30~+70 |
| 1900~2200 | 300 | 0.40 | 20.0 | 1.25 | 150 | 100 | -30~+70 |
| 2100~2700 | 600 | 0.50 | 18.0 | 1.35 | 150 | 100 | -30~+70 |
| 2300~2700 | 400 | 0.40 | 20.0 | 1.25 | 150 | 100 | -30~+70 |
| 2400~2500 | 100 | 0.25 | 25.0 | 1.15 | 150 | 100 | -30~+70 |
| 2500~2700 | 200 | 0.30 | 23.0 | 1.20 | 150 | 100 | -30~+70 |
| 3000~4000 | 200 | 0.30 | 23.0 | 1.20 | 150 | 100 | -30~+70 |
| 3000~4000 | 400 | 0.40 | 20.0 | 1.25 | 150 | 100 | -30~+70 |
| 3200~3900 | 700 | 0.40 | 20.0 | 1.25 | 150 | 100 | -30~+70 |
| 3300~3600 | 300 | 0.40 | 23.0 | 1.20 | 150 | 100 | -30~+70 |
| 3400~4300 | 900 | 0.50 | 20.0 | 1.25 | 150 | 100 | -30~+70 |
| 3600~3800 | 200 | 0.30 | 23.0 | 1.20 | 150 | 100 | -30~+70 |

## Outline Drawings




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

## Mechanical

| | |
|---|---|
| Size[*1]: | 20*27.5*8.6mm |
| | 0.787*1.083*0.339in |
| Connector Type: | Strip line |
| Mounting: | 4-Φ2.7mm through-hole |

[1] Exclude connectors and terminations.

## Direction Naming Rules:

1 - Clockwise
2 - Anticlockwise

## How To Order

QDI2027X-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 QDI2027X series Isolator, 3600~3800MHz, Forward power 150W, Reverse power 100W, Clockwise, specify QDI2027X-3600-3800-K15-K1-1.

Customization is available upon request.