

# QCI3434E

## High Power, High Isolation

**Features:**

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

**Applications:**

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

**Description**

QCI3434E series Coaxial Isolators cover frequency range 700~3000MHz. High power, high isolation and low insertion loss make it ideal for a lot of applications like amplifiers, transceivers, etc.

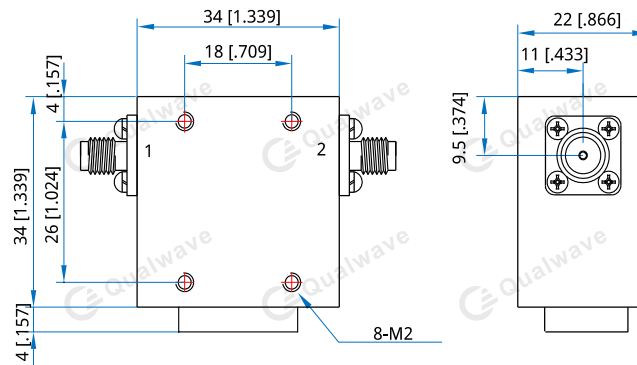
**Specifications**

| Frequency (MHz) | Bandwidth (MHz) | IL (dB Max.) | Isolation (dB Min.) | VSWR (Max.) | Fwd Power* <sup>1</sup> (W Max.) | Rev Power (W) | Connector | Temperature (°C) |
|-----------------|-----------------|--------------|---------------------|-------------|----------------------------------|---------------|-----------|------------------|
| 700~1300        | 100             | 0.30         | 23.0                | 1.20        | 200                              | 10~100        | SMA, N    | -30~+70          |
| 700~1300        | 200             | 0.40         | 20.0                | 1.25        | 200                              | 10~100        | SMA, N    | -30~+70          |
| 700~900         | 200             | 0.40         | 20.0                | 1.25        | 200                              | 10~100        | SMA, N    | -30~+70          |
| 800~1000        | 200             | 0.40         | 20.0                | 1.25        | 200                              | 10~100        | SMA, N    | -30~+70          |
| 890~960         | 70              | 0.25         | 25.0                | 1.15        | 200                              | 10~100        | SMA, N    | -30~+70          |
| 950~1450        | 500             | 0.60         | 15.0                | 1.45        | 200                              | 10~100        | SMA, N    | -30~+70          |
| 960~1215        | 255             | 0.30         | 21.0                | 1.20        | 200                              | 10~100        | SMA, N    | -30~+70          |
| 960~1260        | 300             | 0.45         | 20.0                | 1.25        | 200                              | 10~100        | SMA, N    | -30~+70          |
| 1030~1090       | 60              | 0.25         | 25.0                | 1.15        | 200                              | 10~100        | SMA, N    | -30~+70          |
| 1290~1310       | 20              | 0.25         | 25.0                | 1.15        | 200                              | 10~100        | SMA, N    | -30~+70          |
| 1300~3000       | 200             | 0.30         | 23.0                | 1.20        | 200                              | 10~100        | SMA, N    | -30~+70          |
| 1300~3000       | 300             | 0.45         | 18.0                | 1.30        | 200                              | 10~100        | SMA, N    | -30~+70          |
| 1350~1850       | 500             | 0.60         | 15.0                | 1.45        | 200                              | 10~100        | SMA, N    | -30~+70          |
| 1400~1700       | 300             | 0.45         | 20.0                | 1.25        | 200                              | 10~100        | SMA, N    | -30~+70          |
| 1700~2300       | 600             | 0.50         | 20.0                | 1.25        | 200                              | 10~100        | SMA, N    | -30~+70          |
| 1900~2200       | 300             | 0.40         | 20.0                | 1.25        | 200                              | 10~100        | SMA, N    | -30~+70          |
| 2100~2700       | 600             | 0.50         | 18.0                | 1.35        | 200                              | 10~100        | SMA, N    | -30~+70          |
| 2200~2400       | 200             | 0.30         | 23.0                | 1.20        | 200                              | 10~100        | SMA, N    | -30~+70          |
| 2300~2700       | 400             | 0.40         | 20.0                | 1.25        | 200                              | 10~100        | SMA, N    | -30~+70          |
| 2500~2700       | 200             | 0.30         | 23.0                | 1.20        | 200                              | 10~100        | SMA, N    | -30~+70          |
| 2700~2900       | 200             | 0.30         | 23.0                | 1.20        | 200                              | 10~100        | SMA, N    | -30~+70          |
| 2800~3000       | 200             | 0.30         | 23.0                | 1.20        | 200                              | 10~100        | SMA, N    | -30~+70          |

The size of the termination varies according to the reverse power

[1] The connector is SMA, and the maximum forward power can only reach 100W.

## Outline Drawings



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

### Mechanical

Size<sup>\*2</sup>: 34\*34\*22mm  
1.339\*1.339\*0.866in

Mounting: 8-M2

[2] Exclude connectors and terminations.

### Connector Naming Rules:

S - SMA Female

### Direction Naming Rules:

- 1 - Clockwise
- 2 - Anticlockwise

### How To Order

#### QCI3434E-U-V-W-X-Y-Z

U: Start frequency in MHz

V: Stop frequency in MHz

W: Forward power in W

X: Reverse power in W

Y: Connector type

Z: Direction type

#### Examples:

To order a QCI3232X series Isolator, 700~806MHz, Forward power 200W, Reverse power 100W, SMA female, Clockwise, specify QCI3434E-700-806-K2-K1--S-1.

Customization is available upon request.