

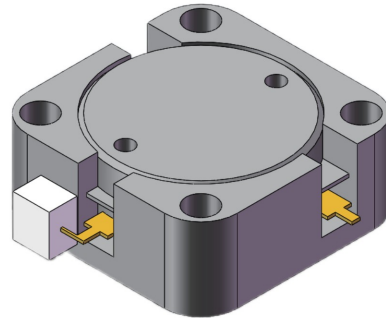
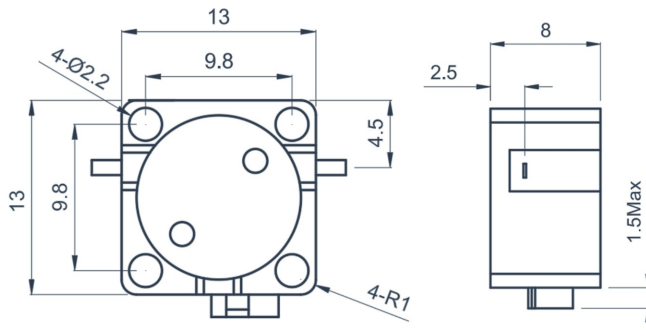
## ■ Drop-in Product



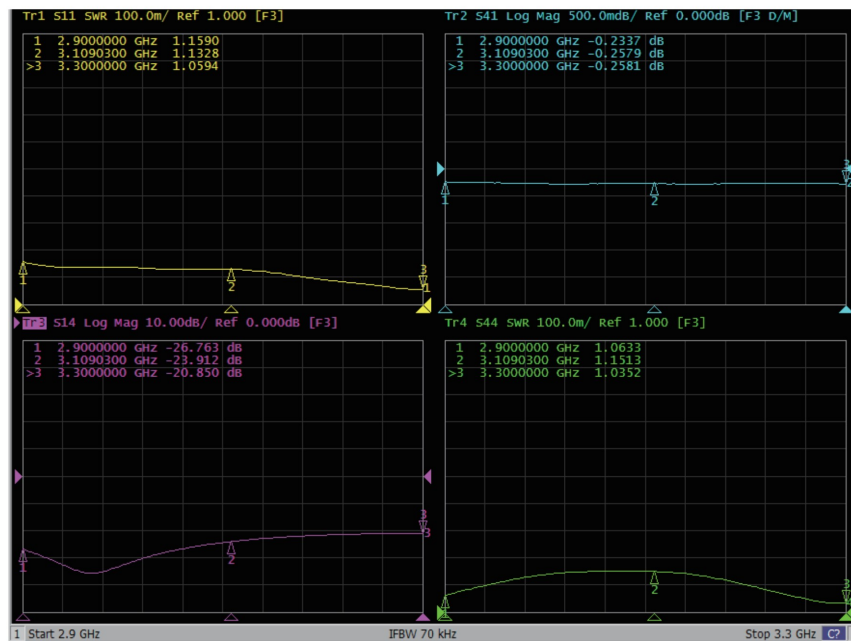
- Frequency range: 40MHz-40GHz
- The relative advantages of Drop-in isolator and circulator are small size, light weight and easy installation.

# Drop-in Isolator

## S Band 2.9~3.3GHz



## Typical Performance Curve

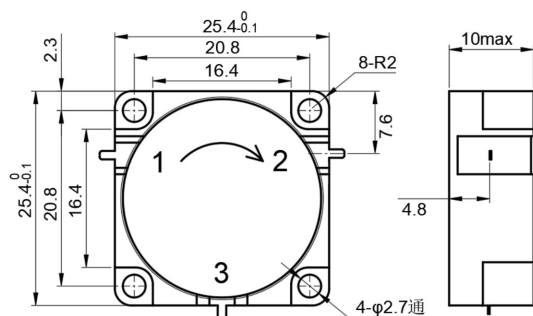


## Electrical Performance Table

| Model       | Frequency (GHz) | BW Max | Insertion loss(dB)Max | Isolation (dB)Min | VSWR Max | Operating temperature (°C) | PK/CW (Watt) | Size(mm) L x W x H | Direction |
|-------------|-----------------|--------|-----------------------|-------------------|----------|----------------------------|--------------|--------------------|-----------|
| HDITC29T33G | S Band(2.9~3.3) | Full   | 0.35                  | 20                | 1.25     | -55~+85°C                  | 500/100      | 12.7×12.7×8        | CW / CCW  |

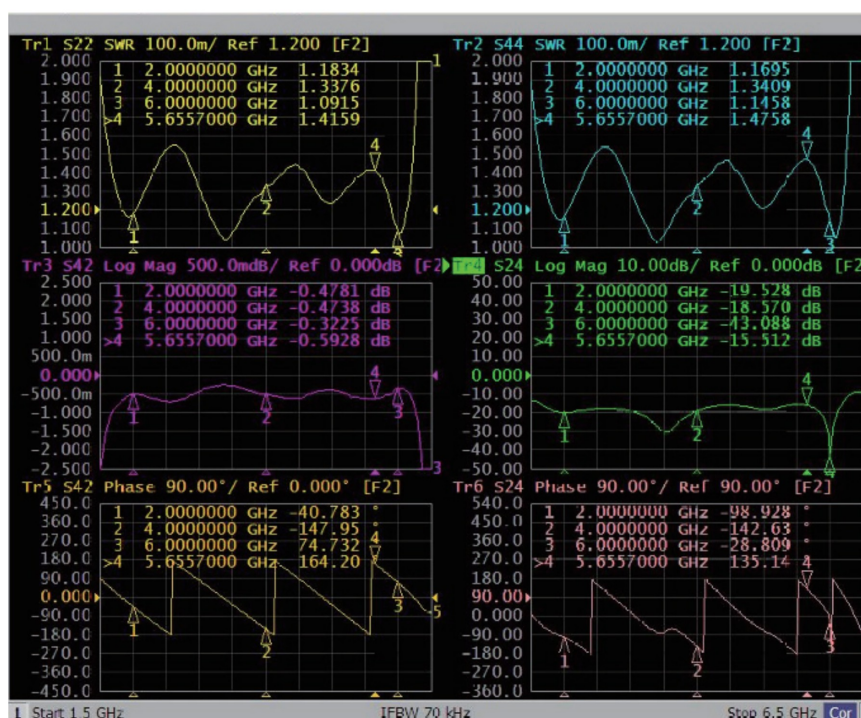
## Drop-in Circulator

### C Band 2~6GHz



The following products are Broadband Drop-in Circulator, covering the frequency range from S to C bands, with a maximum relative bandwidth of up to 66.6% or 100%. Customizable according to frequency band requirements.

### Typical Performance Curve



### Electrical Performance Table

| Model         | Frequency (GHz)   | BW Max | Insertion loss(dB)Max | Isolation (dB)Min | VSWR Max | Operating temperature (℃) | PK/CW (Watt) | Size(mm) L × W × H | Direction |
|---------------|-------------------|--------|-----------------------|-------------------|----------|---------------------------|--------------|--------------------|-----------|
| HDCTC20T60G-B | S/C Band(2.0-6.0) | Full   | 1                     | 11                | 1.7      | -40~+70℃                  | 500/50       | 25.4×25.4×10       | CW / CCW  |

## Drop-in Product

## Typical Drop-in Circulator

| Model          | Frequency (GHz)       | BW Max | Insertion loss(dB)Max | Isolation (dB)Min | VSWR Max | Operating temperature (℃) | PK/CW (Watt) | Size(mm)<br>L × W × H | Direction |
|----------------|-----------------------|--------|-----------------------|-------------------|----------|---------------------------|--------------|-----------------------|-----------|
| HDCTC80T300M   | VHF Band(0.08~0.3)    | 20%    | 0.5                   | 20                | 1.25     | -55~+85℃                  | 1000/100     | 82×82×22              | CW / CCW  |
| HDCTC50T300M   | VHF Band(0.05~0.3)    | 10%    | 0.4                   | 20                | 1.2      | -55~+85℃                  | 1000/100     | 82×82×22              | CW / CCW  |
| HDCTC150T400M  | VHF Band(0.15~0.4)    | 20%    | 0.4                   | 20                | 1.25     | -55~+85℃                  | 1000/100     | 53×53×16              | CW / CCW  |
| HDCTC150T400M  | VHF Band(0.15~0.4)    | 10%    | 0.3                   | 20                | 1.2      | -55~+85℃                  | 1000/100     | 53×53×16              | CW / CCW  |
| HDCTC250T600M  | UHF Band (0.25~0.6)   | 20%    | 0.4                   | 20                | 1.25     | -55~+85℃                  | 1000/100     | 35×35×12              | CW / CCW  |
| HDCTC250T600M  | UHF Band (0.25~0.6)   | 10%    | 0.3                   | 20                | 1.2      | -55~+85℃                  | 1000/100     | 35×35×12              | CW / CCW  |
| HDCTC450T1000M | UHF Band (0.45~1.0)   | 20%    | 0.4                   | 20                | 1.25     | -55~+85℃                  | 1000/100     | 28×28×10.5            | CW / CCW  |
| HDCTC450T1000M | UHF Band (0.45~1.0)   | 10%    | 0.3                   | 20                | 1.2      | -55~+85℃                  | 1000/100     | 28×28×10.5            | CW / CCW  |
| HDCTC08T34G    | UHF Band(0.8~3.4)     | 20%    | 0.4                   | 20                | 1.25     | -55~+85℃                  | 500/100      | 25.4×25.4×10          | CW / CCW  |
| HDCTC08T34G    | UHF Band(0.8~3.4)     | 10%    | 0.3                   | 20                | 1.25     | -55~+85℃                  | 500/100      | 25.4×25.4×10          | CW / CCW  |
| HDCTC10T34G    | L Band (1.0~3.4)      | 15%    | 0.4                   | 20                | 1.25     | -55~+85℃                  | 500/100      | 20×20×8               | CW / CCW  |
| HDCTC10T34G    | L Band (1.0~3.4)      | 10%    | 0.3                   | 20                | 1.2      | -55~+85℃                  | 500/100      | 20×20×8               | CW / CCW  |
| HDCTC12T14G    | L Band(1.2~1.4)       | Full   | 0.5                   | 20                | 1.2      | -55~+85℃                  | /100         | 13×13×6               | CW / CCW  |
| HDCTC18T34G    | L Band(1.8~3.4)       | 10%    | 0.4                   | 20                | 1.25     | -55~+85℃                  | 500/100      | 13×13×8               | CW / CCW  |
| HDCTC18T34G    | L Band(1.8~3.4)       | 5%     | 0.3                   | 20                | 1.2      | -55~+85℃                  | 500/100      | 13×13×8               | CW / CCW  |
| HDCTC20T34G    | S Band(2.0~3.4)       | 10%    | 0.5                   | 20                | 1.25     | -55~+85℃                  | 200/50       | 13×11.5×7             | CW / CCW  |
| HDCTC20T34G    | S Band(2.0~3.4)       | 5%     | 0.4                   | 20                | 1.2      | -55~+85℃                  | 200/50       | 13×11.5×7             | CW / CCW  |
| HDCTC26T38G    | S Band(2.6~3.8)       | 10%    | 0.5                   | 20                | 1.25     | -55~+85℃                  | 200/50       | 13×10×7               | CW / CCW  |
| HDCTC26T38G    | S Band(2.6~3.8)       | 5%     | 0.4                   | 20                | 1.2      | -55~+85℃                  | 200/50       | 13×10×7               | CW / CCW  |
| HDCTC25T50G    | S Band(2.5~5.0)       | 10%    | 0.4                   | 20                | 1.25     | -55~+85℃                  | 200/50       | 16×16×6.4             | CW / CCW  |
| HDCTC25T50G    | S Band(2.5~5.0)       | 5%     | 0.35                  | 20                | 1.2      | -55~+85℃                  | 200/50       | 16×16×6.4             | CW / CCW  |
| HDCTC40T80G    | C Band(4.0~8.0)       | 10%    | 0.4                   | 20                | 1.25     | -55~+85℃                  | 200/50       | 13×13×6.4             | CW / CCW  |
| HDCTC40T80G    | C Band(4.0~8.0)       | 5%     | 0.35                  | 20                | 1.2      | -55~+85℃                  | 200/50       | 13×13×6.4             | CW / CCW  |
| HDCTC50T60G    | C Band(5.0~6.0)       | Full   | 0.4                   | 20                | 1.2      | -55~+85℃                  | /50          | 12.7×12.7×5           | CW / CCW  |
| HDCTC70T180G   | X/Ku Band (7.0~18.0)  | 10%    | 0.4                   | 20                | 1.25     | -55~+85℃                  | 200/20       | 10×9×5.1              | CW / CCW  |
| HDCTC70T180G   | X/Ku Band (7.0~18.0)  | 5%     | 0.35                  | 20                | 1.25     | -55~+85℃                  | 200/20       | 10×9×5.1              | CW / CCW  |
| HDCTC180T400G  | K/Ka Band (18.0~40.0) | 10%    | 0.6                   | 18                | 1.35     | -55~+85℃                  | 20/5         | 20×10×8               | CW / CCW  |

## Drop-in Product

### Broadband Drop-in Circulator

| Model           | Frequency (GHz)      | BW Max | Insertion loss(dB)Max | Isolation (dB)Min | VSWR Max   | Operating temperature (°C) | PK/CW (Watt) | Size(mm) L × W × H | Direction |
|-----------------|----------------------|--------|-----------------------|-------------------|------------|----------------------------|--------------|--------------------|-----------|
| HDCTC01T04G-B   | VHF Band (0.1~0.4)   | 40%    | 0.6                   | 15                | 1.5        | -55~+85℃                   | 1000/100     | 100×100×30         | CW / CCW  |
| HDCTC03T06G-B   | UHF Band(0.3~0.6)    | 40%    | 0.6                   | 15                | 1.5        | -55~+85℃                   | 1000/100     | 62×62×26           | CW / CCW  |
| HDCTC05T10G-B   | UHF Band(0.5~1.0)    | 40%    | 0.6                   | 15                | 1.5        | -55~+85℃                   | 1000/100     | 46×46×14           | CW / CCW  |
| HDCTC10T20G-B   | L Band(1.0~2.0)      | Full   | 0.7(1.0)              | 16(14)            | 1.5(1.6)   | 0~+60℃                     | 500/100      | 50×50×22           | CW / CCW  |
| HDCTC20T40G-B   | S Band(2.0~4.0)      | Full   | 0.5                   | 17                | 1.35       | -20~+60℃                   | 500/50       | 30.5×30.5×15       | CW / CCW  |
| HDCTC20T60G-B   | S/C Band(2.0~6.0)    | Full   | 1.0(1.2)              | 11                | 1.65(1.75) | -20~+60℃                   | 500/50       | 30.5×30.5×15       | CW / CCW  |
| HDCTC20T60G-B   | S/C Band(2.0~6.0)    | Full   | 1.0(1.2)              | 11(10)            | 1.7(1.8)   | -40~+70℃                   | 500/50       | 25.4×25.4×10       | CW / CCW  |
| HDCTC30T60G-B   | S/C Band(3.0~6.0)    | Full   | 0.6(0.65)             | 16                | 1.35       | -20~+60℃                   | /60          | 25×25×15           | CW / CCW  |
| HDCTC40T80G-B   | C Band(4.0~8.0)      | Full   | 0.6(0.7)              | 17(16)            | 1.4(1.5)   | -40~+70℃                   | /60          | 16×16×6.4          | CW / CCW  |
| HDCTC60T180G-B  | C/XKu Band(6.0~18.0) | Full   | 1.2(1.5)              | 11(10)            | 1.7(1.8)   | -20~+60℃                   | /30          | 12.7×12.7×6.5      | CW / CCW  |
| HDCTC80T120G-B  | X Band(8.0~12.0)     | Full   | 0.5                   | 18                | 1.3        | -55~+85℃                   | 50/20        | 10×9×5.1           | CW / CCW  |
| HDCTC120T180G-B | Ku Band(12.0~18.0)   | Full   | 0.6                   | 16                | 1.35       | -55~+85℃                   | 50/20        | 10×9×5.1           | CW / CCW  |
| HDCTC180T265G-B | K Band 18.0~26.5     | Full   | 1                     | 14                | 1.5        | -40~+70℃                   | 20/5         | 20×10×8            | CW / CCW  |

## Drop-in Product

### SMD Circulator(SMT)

| Model          | Frequency (GHz)        | BW Max | Insertion loss(dB)Max            | Isolation (dB)Min | VSWR Max          | Operating temperature (℃) | PK/CW (Watt) | Size(mm) L × W × H | Direction |
|----------------|------------------------|--------|----------------------------------|-------------------|-------------------|---------------------------|--------------|--------------------|-----------|
| HDCTC336T344M  | UHF Band (0.336~0.344) | Full   | 0.4                              | 18                | 1.29              | -40~+125                  | 2000/200     | 31.8×31.8×9        | CW / CCW  |
| HLCU1805T1880M | L Band (1.805~1.88)    | Full   | 0.75(-35~+125℃)                  | 13dB (-35~+125℃)  | 1.58(-35~+125℃)   | -40~125℃                  | 10/2         | 5×5×2.4            | CW / CCW  |
| HLCU2110T2170M | S Band (2.11~2.17)     | Full   | 0.6(-35~+85℃)<br>0.65(+85~+125℃) | 13dB (-35~+125℃)  | 1.58(-35~+125℃)   | -40~125℃                  | 10/2         | 5×5×2.4            | CW / CCW  |
| HLCU2500T2700M | S Band (2.5~2.7)       | Full   | 1.3(-40~+125℃)                   | 11dB (-40~+125℃)  | 1.78(-40~+125℃)   | -40~125℃                  | 10/2         | 5×5×2.4            | CW / CCW  |
| HLCU3300T3600M | S Band (3.3~3.6)       | Full   | 0.8(-10~+85℃)<br>1.0(+85~+105℃)  | 12dB (-10~+85℃)   | 1.67(-10~+85℃)    | -40~125℃                  | 10/2         | 5×5×2.4            | CW / CCW  |
| HDCE20T21M     | S Band (2.0~2.1)       | Full   | 0.4                              | 20                | 1.4               | -55~+85                   | /80          | 14.8×13.9×7        | CW / CCW  |
| HDCE2496T2960M | S Band (2.496~2.96)    | Full   | 0.35(0.3)                        | 18(20)            | 1.29 (1.22)       | -40~+125                  | 200/50       | 9×9×6.5            | CW / CCW  |
| HDCE34T37G     | S Band (3.4~3.7)       | Full   | 0.3(0.28/0.33)                   | 20(18/22)         | 1.22 (1.29 /1.17) | -40~+125                  | 200/50       | 9×9×6.5            | CW / CCW  |
| HDCE34T38G     | S Band (3.4~3.8)       | Full   | 0.35(0.3)                        | 18(20)            | 1.29 (1.22)       | -40~+125                  | 200/50       | 9×9×6.5            | CW / CCW  |
| HDCE34T36G     | S Band (3.4~3.6)       | Full   | 0.25                             | 20(22)            | 1.22 (1.17)       | -40~+125                  | 200/50       | 12.6×12.6×7        | CW / CCW  |
| HDCE34T38G     | S Band (3.4~3.8)       | Full   | 0.3(0.28/0.35)                   | 20(18/22)         | 1.22 (1.29 /1.17) | -40~+125                  | 800/80       | 12.7×12.7×7.5      | CW / CCW  |
| HDCE46T50G     | C Band (4.6~5.0)       | Full   | 0.3(0.28/0.33)                   | 20(19/23)         | 1.22 (1.25 /1.15) | -40~+125                  | 800/150      | 12.7×12.7×7.5      | CW / CCW  |
| HDCE50T60G     | C Band (5.0~6.0)       | Full   | 0.35                             | 22                | 1.2               | -55~+85                   | /50          | 13.8×6.5×12.3      | CW / CCW  |

## Drop-in Product

### Typical Drop-in Isolator

| Model          | Frequency (GHz)       | BW Max | Insertion loss(dB)Max | Isolation (dB)Min | VSWR Max | Operating temperature (℃) | PK/CW (Watt) | Size(mm) L × W × H | Direction |
|----------------|-----------------------|--------|-----------------------|-------------------|----------|---------------------------|--------------|--------------------|-----------|
| HDITC50T300M   | VHF Band(0.05~0.3)    | 10%    | 0.4                   | 20                | 1.2      | -55~+85℃                  | 1000/100     | 82×82×22           | CW / CCW  |
| HDITC50T300M   | VHF Band(0.05~0.3)    | 20%    | 0.5                   | 20                | 1.25     | -55~+85℃                  | 1000/100     | 82×82×22           | CW / CCW  |
| HDITC150T400M  | VHF Band(0.15~0.4)    | 10%    | 0.3                   | 20                | 1.2      | -55~+85℃                  | 1000/100     | 53×53×16           | CW / CCW  |
| HDITC150T400M  | VHF Band(0.15~0.4)    | 20%    | 0.4                   | 20                | 1.25     | -55~+85℃                  | 1000/100     | 53×53×16           | CW / CCW  |
| HDITC250T600M  | UHF Band(0.25~0.6)    | 10%    | 0.3                   | 20                | 1.2      | -55~+85℃                  | 1000/100     | 35×35×12           | CW / CCW  |
| HDITC250T600M  | UHF Band(0.25~0.6)    | 20%    | 0.4                   | 20                | 1.25     | -55~+85℃                  | 1000/100     | 35×35×12           | CW / CCW  |
| HDITC450T1000M | UHF Band(0.45~1.0)    | 10%    | 0.3                   | 20                | 1.2      | -55~+85℃                  | 1000/100     | 28×28×10.5         | CW / CCW  |
| HDITC450T1000M | UHF Band(0.45~1.0)    | 20%    | 0.4                   | 20                | 1.25     | -55~+85℃                  | 1000/100     | 28×28×10.5         | CW / CCW  |
| HDITC08T35G    | UHF/L/S Band(0.8~3.5) | 10%    | 0.3                   | 20                | 1.2      | -55~+85℃                  | 500/100      | 25.4×25.4×10       | CW / CCW  |
| HDITC08T35G    | UHF/L/S Band(0.8~3.5) | 20%    | 0.4                   | 20                | 1.25     | -55~+85℃                  | 500/100      | 25.4×25.4×10       | CW / CCW  |
| HDITC10T35G    | L/S Band(1.0~3.5)     | 10%    | 0.3                   | 20                | 1.2      | -55~+85℃                  | 500/100      | 20×20×8            | CW / CCW  |
| HDITC10T35G    | L/S Band(1.0~3.5)     | 15%    | 0.4                   | 20                | 1.25     | -55~+85℃                  | 500/100      | 20×20×8            | CW / CCW  |
| HDITC12T14G    | L Band(1.2~1.4)       | Full   | 0.5                   | 20                | 1.2      | -55~+85℃                  | /100         | 13×13×6            | CW / CCW  |
| HDITC18T35G    | L/S Band(1.8~3.5)     | 5%     | 0.3                   | 20                | 1.2      | -55~+85℃                  | 500/50       | 13×13×8            | CW / CCW  |
| HDITC18T35G    | L/S Band(1.8~3.5)     | 10%    | 0.4                   | 20                | 1.25     | -55~+85℃                  | 500/50       | 13×13×8            | CW / CCW  |
| HDITC20T35G    | S Band(2.0~3.5)       | 10%    | 0.5                   | 20                | 1.25     | -55~+85℃                  | 200/40       | 13×11.5×7          | CW / CCW  |
| HDITC20T35G    | S Band(2.0~3.5)       | 5%     | 0.4                   | 20                | 1.2      | -55~+85℃                  | 200/40       | 13×11.5×7          | CW / CCW  |
| HDITC25T50G    | S/C Band(2.5~5.0)     | 10%    | 0.4                   | 20                | 1.25     | -55~+85℃                  | 200/50       | 16×16×6.4          | CW / CCW  |
| HDITC25T50G    | S/C Band(2.5~5.0)     | 5%     | 0.35                  | 20                | 1.2      | -55~+85℃                  | 200/50       | 16×16×6.4          | CW / CCW  |
| HDITC26T40G    | S Band(2.6~4.0)       | 10%    | 0.5                   | 20                | 1.25     | -55~+85℃                  | 200/20       | 13×10×7            | CW / CCW  |
| HDITC26T40G    | S Band(2.6~4.0)       | 5%     | 0.4                   | 20                | 1.2      | -55~+85℃                  | 200/20       | 13×10×7            | CW / CCW  |
| HDITC40T80G    | C Band(4.0~8.0)       | 10%    | 0.4                   | 20                | 1.25     | -55~+85℃                  | 200/50       | 13×13×6.4          | CW / CCW  |
| HDITC40T80G    | C Band(4.0~8.0)       | 5%     | 0.35                  | 20                | 1.2      | -55~+85℃                  | 200/50       | 13×13×6.4          | CW / CCW  |
| HDITC50T60G    | C Band(5.0~6.0)       | Full   | 0.4                   | 20                | 1.2      | -55~+85℃                  | /50          | 12.7×12.7×5        | CW / CCW  |
| HDITC60T180G   | C/X/Ku Band(6.0~18.0) | 5%     | 0.35                  | 20                | 1.2      | -55~+85℃                  | 100/20       | 14×9×5.1           | CW / CCW  |
| HDITC60T180G   | C/X/Ku Band(6.0~18.0) | 10%    | 0.4                   | 20                | 1.25     | -55~+85℃                  | 100/20       | 14×9×5.1           | CW / CCW  |
| HDITC180T400G  | K/Ka Band(18.0~40.0)  | 10%    | 0.6                   | 18                | 1.35     | -55~+85℃                  | 20/5         | 25×10×9            | CW / CCW  |

## Drop-in Product

### Broadband Drop-in Isolator

| Model           | Frequency (GHz)       | BW Max | Insertion loss(dB)Max | Isolation (dB)Min | VSWR Max | Operating temperature (℃) | PK/CW (Watt) | Size(mm) L × W × H | Direction |
|-----------------|-----------------------|--------|-----------------------|-------------------|----------|---------------------------|--------------|--------------------|-----------|
| HDITC100T400M-B | VHF Band(0.1~0.4)     | 40%    | 0.6                   | 15                | 1.5      | -55~+85℃                  | 1000/100     | 100×100×30         | CW / CCW  |
| HDITC300T600M-B | UHF Band(0.3~0.6)     | 40%    | 0.6                   | 15                | 1.5      | -55~+85℃                  | 1000/100     | 62×62×26           | CW / CCW  |
| HDITC05T10G-B   | UHF Band(0.5~1.0)     | 40%    | 0.6                   | 15                | 1.5      | -55~+85℃                  | 1000/100     | 46×46×14           | CW / CCW  |
| HDITC10T20G-B   | L Band(1.0~2.0)       | Full   | 0.7(1.0)              | 16(14)            | 1.5(1.6) | 0~+60℃                    | /100         | 50×50×22           | CW / CCW  |
| HDITC20T40G-B   | S Band(2.0~4.0)       | Full   | 0.5                   | 17                | 1.35     | -20~+60℃                  | /80          | 30.5×30.5×15       | CW / CCW  |
| HDITC20T60G-B   | S/C Band(2.0~6.0)     | Full   | 0.8                   | 14                | 1.5      | -40~+70℃                  | /80          | 30.5×30.5×15       | CW / CCW  |
| HDITC20T60G-B   | S/C Band(2.0~6.0)     | Full   | 1.0(1.2)              | 11(10)            | 1.7(1.8) | -20~+60℃                  | /50          | 25.4×25.4×10       | CW / CCW  |
| HDCTC40T80G-B   | C Band(4.0~8.0)       | Full   | 0.5                   | 17                | 1.35     | -55~+85℃                  | /60          | 16×16×6.4          | CW / CCW  |
| HDITC60T180G-B  | C/X/Ku Band(6.0~18.0) | Full   | 1.2                   | 11                | 1.7      | -55~+85℃                  | /30          | 15.7×12.7×6.5      | CW / CCW  |
| HDITC80T120G-B  | X Band(8.0~12.0)      | Full   | 0.5                   | 18                | 1.3      | -55~+85℃                  | 50/20        | 14×9×5.1           | CW / CCW  |
| HDITC120T180G-B | Ku Band(12.0~18.0)    | Full   | 0.6                   | 16                | 1.35     | -55~+85℃                  | 50/20        | 14×9×5.1           | CW / CCW  |
| HDITC180T265G-B | K Band(18.0~26.5)     | Full   | 1                     | 14                | 1.5      | -40~+70℃                  | 20/5         | 16×13×12.6         | CW / CCW  |

### High Power Drop-in Isolator

| Model          | Frequency (GHz)     | BW Max | Insertion loss(dB)Max | Isolation (dB)Min | VSWR Max | Operating temperature (℃) | PK/CW (Watt) | Size(mm) L × W × H | Direction |
|----------------|---------------------|--------|-----------------------|-------------------|----------|---------------------------|--------------|--------------------|-----------|
| HDITC50T200M-H | VHF Band(0.05~0.2)  | 10%    | 0.4                   | 20                | 1.2      | -55~+85℃                  | 5000/500     | 114×100×30         | CW / CCW  |
| HDITC01T03G-H  | VHF Band(0.1~0.3)   | 10%    | 0.4                   | 20                | 1.2      | -55~+85℃                  | 5000/500     | 76×62×26           | CW / CCW  |
| HDITC01T03G-H  | UHF Band(0.25~0.6)  | 10%    | 0.4                   | 20                | 1.2      | -55~+85℃                  | 5000/500     | 60×46×14           | CW / CCW  |
| HDITC05T10G-H  | UHF Band(0.5~1.0)   | 10%    | 0.4                   | 20                | 1.2      | -55~+85℃                  | 2000/200     | 35×28×10.5         | CW / CCW  |
| HDITC10T60G-H  | L/S/C Band(1.0~6.0) | 10%    | 0.4                   | 20                | 1.2      | -40~+70℃                  | 2000/200     | 36×25.4×10         | CW / CCW  |
| HDITC10T60G-H  | L/S/C Band(1.0~6.0) | 10%    | 0.4                   | 20                | 1.2      | -40~+70℃                  | 1000/100/100 | 30×20×8            | CW / CCW  |
| HDITC40T60G-H  | L/S Band(1.6~3.4)   | 10%    | 0.4                   | 20                | 1.2      | -40~+70℃                  | 1000/100     | 20×13×8            | CW / CCW  |
| HDITC40T60G-H  | C Band(4.0~6.0)     | 10%    | 0.4                   | 20                | 1.2      | -40~+70℃                  | 500/80       | 19×16×6.4          | CW / CCW  |
| HDITC50T120G-H | C/X Band(5.0~12.0)  | 10%    | 0.4                   | 20                | 1.2      | -40~+70℃                  | 200/50       | 18×13×6.4          | CW / CCW  |

## Drop-in Product

### SMD Isolator(SMT)

| Model          | Frequency (GHz)        | BW Max | Insertion loss(dB)Max | Isolation (dB)Min | VSWR Max        | Operating temperature (℃) | PK/CW (Watt) | Size(mm) L × W × H | Direction |
|----------------|------------------------|--------|-----------------------|-------------------|-----------------|---------------------------|--------------|--------------------|-----------|
| HDIE460T470M   | UHF Band (0.46~0.47)   | Full   | 0.35(0.3)             | 19(22)            | 1.25(1.17)      | -40~+125                  | 2500/250     | 28×25.35×7.5       | CW / CCW  |
| HDIE758T821M   | UHF Band (0.758~0.821) | Full   | 0.30(0.25)            | 23(24)            | 1.22(1.15/1.12) | -40~+125                  | 2500/250     | 28×25.35×7.5       | CW / CCW  |
| HDIE1805T1880M | L Band (1.805~1.88)    | Full   | 0.25(0.2)             | 23(25)            | 1.22(1.15/1.12) | -40~+125                  | 2500/250     | 28×25.35×7.5       | CW / CCW  |
| HDIE758T821M   | UHF Band (0.758~0.821) | Full   | 0.20(0.15)            | 20(23/25)         | 1.22(1.15/1.12) | -40~+125                  | 2500/250     | 22.3×31.37×8       | CW / CCW  |
| HDIE1805T2170M | L Band (1.805~2.17)    | Full   | 0.7(0.6)              | 14                | 14              | -40~+125                  | 120/20       | 12.52×14.7×7       | CW / CCW  |
| HDIA2110T2170M | S Band (2.11~2.17)     | Full   | 0.25(0.2)             | 23(25)            | 1.22(1.15/1.12) | -40~+125                  | 2500/250     | 31.7×25.4×9        | CW / CCW  |
| HLIU925T960M   | UHF Band (0.925~0.96)  | Full   | 0.7(-35~+85℃)         | 10(-40~+125℃)     | 1.92(-40~+125℃) | -40~+125℃                 | 10/2         | 5×5×2.4            | CW / CCW  |
|                |                        |        | 0.9(+85~+115℃)        |                   |                 |                           |              |                    |           |
| HLIU1427T1517M | L Band (1.427~1.517)   | Full   | 0.8(-40~+125℃)        | 13(-40~+125℃)     | 1.58(-40~+125℃) | -40~+125℃                 | 10/2         | 5×5×2.4            | CW / CCW  |
| HLIU1610T1626M | L Band (1.61~1.626)    | Full   | 0.6(-15~+35℃)         | 15(-15~+35℃)      | 1.40(-15~+35℃)  | -40~+125℃                 | 10/2         | 5×5×2.4            | CW / CCW  |
|                |                        |        | 0.65(-35~+85℃)        | 14(-35~+85℃)      | 1.50(-35~+85℃)  |                           |              |                    |           |
| HLIU1805T1880M | L Band (1.805~1.88)    | Full   | 0.6(-35~+85℃)         | 14(-35~+85℃)      | 1.50(-35~+85℃)  | -40~+125℃                 | 10/2         | 5×5×2.4            | CW / CCW  |
|                |                        |        | 0.75(+85~+125℃)       | 13(+85~+125℃)     | 1.58(+85~+125℃) |                           |              |                    |           |
| HLIU2470T2730M | S Band (2.47~2.73)     | Full   | 0.85(-40~+105℃)       | 12(-40~+125℃)     | 1.67(-40~+125℃) | -40~+125℃                 | 10/2         | 5×5×2.4            | CW / CCW  |
|                |                        |        | 0.95(+105~+125℃)      |                   |                 |                           |              |                    |           |
| HLIU3400T3800M | S Band (3.4~3.8)       | Full   | 1(-40~+85℃)           | 10(-40~+85℃)      | 1.92(-40~+85℃)  | -40~+125℃                 | 10/2         | 5×5×2.4            | CW / CCW  |
|                |                        |        | 1.2(+85~+125℃)        | 8(+85~+125℃)      | 2.3(+85~+125℃)  |                           |              |                    |           |

### Dual-Junction Drop-in Circulator

| Model       | Frequency (GHz)  | BW Max | Insertion loss(dB)Max | Isolation (dB)Min | VSWR Max | Operating temperature (℃) | PK/CW/RP (Watt) | Size(mm) L × W × H | Direction |
|-------------|------------------|--------|-----------------------|-------------------|----------|---------------------------|-----------------|--------------------|-----------|
| HDDHA12T14G | L Band (1.2~1.4) | Full   | 0.4(P1-P2)            | 18.0(P2-P1)       | 1.35     | -40~+70                   | 200/50/20       | 18×34×8.6          | CW / CCW  |
|             |                  |        | 0.8(P2-P3)            | 35.0(P3-P2)       |          |                           |                 |                    |           |
| HDDHA53T59G | C Band (5.3~5.9) | Full   | 0.45(P1-P2)           | 19.0(P2-P1/P3-P1) | 1.25     | -40~+70                   | 100/20/20       | 9.5×19×8           | CW / CCW  |
|             |                  |        | 0.8(P2-P3)            | 38.0(P3-P2)       |          |                           |                 |                    |           |