NDC0915D

High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

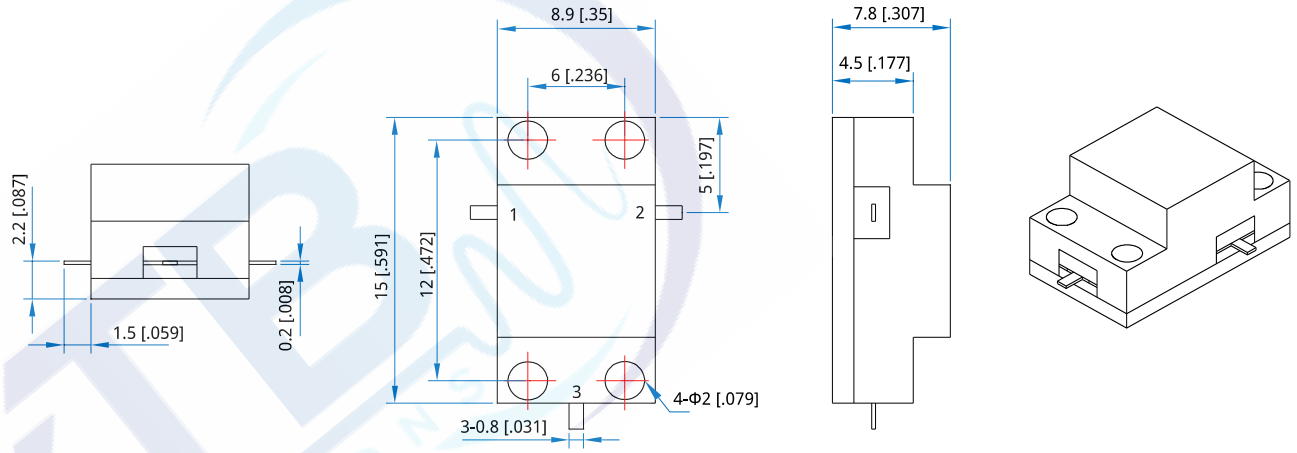
Description

NDC0915D series Drop-In Circulators cover frequency range 7~18GHz. 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.)	Average Power (W)	Temperature (°C)
7000~9000	2000	0.50	18.0	1.30	10~30	-30~+70
7700~8100	400	0.40	20.0	1.25	10~30	-30~+70
8000~10000	2000	0.40	18.0	1.30	10~30	-30~+70
8000~12000	4000	0.60	17.0	1.35	10~30	-30~+70
8300~8500	200	0.30	23.0	1.20	10~30	-30~+70
8900~9600	700	0.40	20.0	1.25	10~30	-30~+70
9200~9500	300	0.30	23.0	1.20	10~30	-30~+70
9500~10500	1000	0.40	20.0	1.25	10~30	-30~+70
10500~12500	2000	0.40	20.0	1.20	10~30	-30~+70
11000~14000	3000	0.60	18.0	1.35	10~30	-30~+70
12000~18000	6000	0.60	17.0	1.35	10~30	-30~+70
13700~14500	800	0.40	20.0	1.20	10~30	-30~+70
15000~15400	400	0.35	23.0	1.20	10~30	-30~+70
15700~16000	300	0.40	20.0	1.20	10~30	-30~+70

Outline Drawings



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

Mechanical

Size[*1]:	8.9*15*7.8mm
	0.35*0.591*0.307in
Connector Type:	Strip line
Mounting:	4-Φ2mm through-hole

[1] Exclude connectors

How To Order

NDC0915D-X-Y-Z

X: Start frequency in MHz

Y: Stop frequency in MHz

Z: Average Power in W

Examples:

To order a NDC0915D series Circulator, 15.7~16GHz, 30W, specify NDC0915D-15700-16000-30.

Customization is available upon request.

Drop-In Circulators

NDC1220D

High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

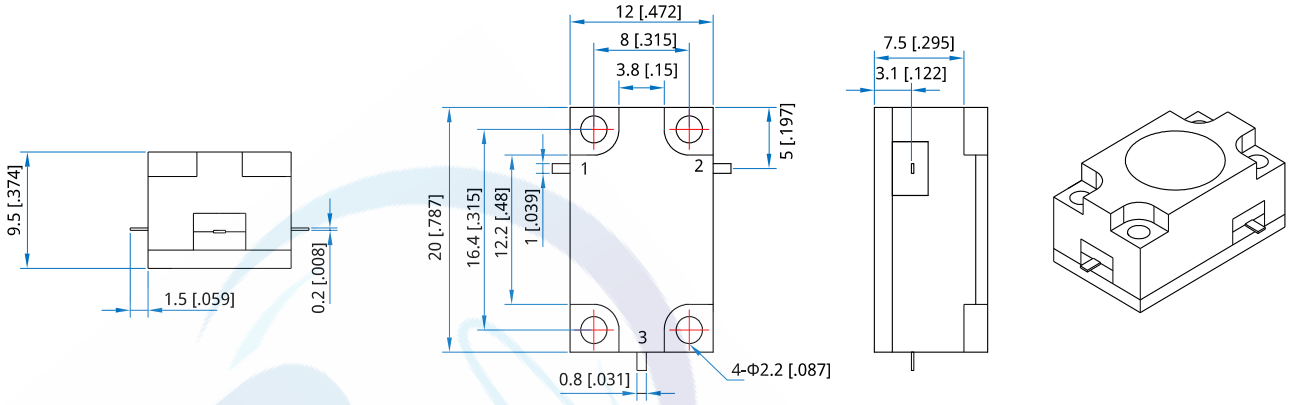
Description

NDC1220D series Drop-In Circulators cover frequency range 5~6.5GHz. 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.)	Average Power (W)	Temperature (°C)
5100~5900	800	0.50	18.0	1.30	60	-30~+70
5150~5500	350	0.40	20.0	1.25	60	-30~+70
5230~5340	110	0.30	23.0	1.20	60	-30~+70
5400~5900	500	0.40	20.0	1.25	60	-30~+70
5700~5900	200	0.30	23.0	1.20	60	-30~+70
5780~6000	220	0.30	23.0	1.25	60	-30~+70
5800~6500	700	0.40	20.0	1.25	60	-30~+70
6500~7000	500	0.40	20.0	1.25	60	-30~+70

Outline Drawings



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

Mechanical

Size*1:	12*20*9.5mm 0.472*0.787*0.374in
Connector Type:	Strip line
Mounting:	4-Φ2.2mm through-hole

[1] Exclude connectors

How To Order

NDC1220D-X-Y-Z
X: Start frequency in MHz
Y: Stop frequency in MHz
Z: Average Power in W

Examples:
To order a NDC1220D series Circulator, 5.7~6GHz, 50W, specify NDC1220D-5700-6000-50.

Customization is available upon request.

NDC1313M

High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

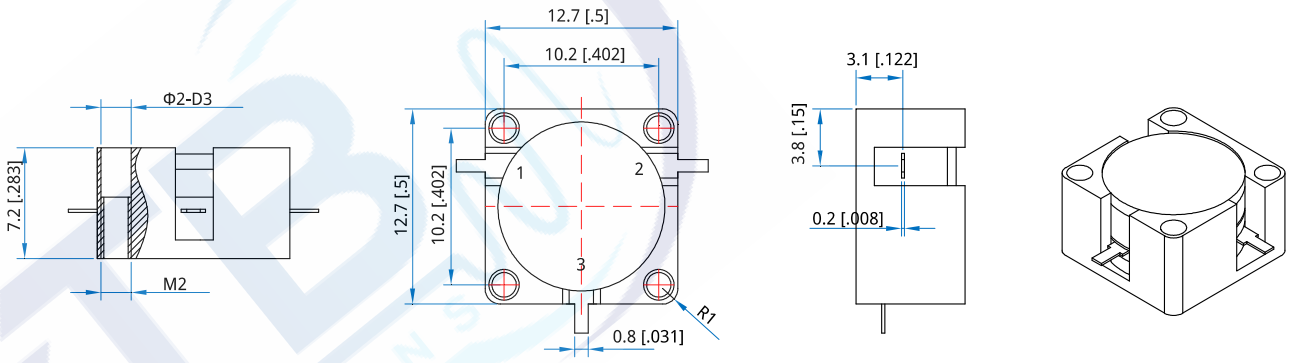
Description

NDC1313M series Drop-In Circulators cover frequency range 1.7~6GHz. 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.)	Average Power (W)	Temperature (°C)
1710~1785	75	0.30	23.0	1.20	60~100	-30~+70
1805~1880	75	0.30	23.0	1.20	60~100	-30~+70
1805~1920	115	0.40	20.0	1.25	60~100	-30~+70
1880~1920	40	0.30	23.0	1.20	60~100	-30~+70
2110~2170	60	0.30	23.0	1.20	60~100	-30~+70
2300~2400	100	0.30	23.0	1.20	60~100	-30~+70
2400~2500	100	0.30	23.0	1.20	60~100	-30~+70
2500~2700	200	0.30	23.0	1.20	60~100	-30~+70
2700~2900	200	0.30	23.0	1.20	60~100	-30~+70
2900~3100	200	0.30	23.0	1.20	60~100	-30~+70
3000~5000	200	0.35	20.0	1.25	60~100	-30~+70
3250~3450	200	0.35	20.0	1.25	60~100	-30~+70
3300~3500	200	0.35	20.0	1.25	60~100	-30~+70
3500~3650	150	0.35	20.0	1.25	60~100	-30~+70
5100~5900	800	0.45	18.0	1.30	60~100	-30~+70
5700~5900	200	0.40	20.0	1.25	60~100	-30~+70

Outline Drawings



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

Mechanical

Size[*1]:	12.7*12.7*7.2mm 0.5*0.5*0.283in
Connector Type:	Strip line
Mounting:	Φ2mm depth 3mm M2

[1] Exclude connectors

How To Order

NDC1313M-X-Y-Z

X: Start frequency in MHz

Y: Stop frequency in MHz

Z: Average Power in W

Examples:

To order a NDC1313M series Circulator, 2400~2500MHz, 100W, specify NDC1313M-2400-2500-K1.

Customization is available upon request.

NDC1313T

High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

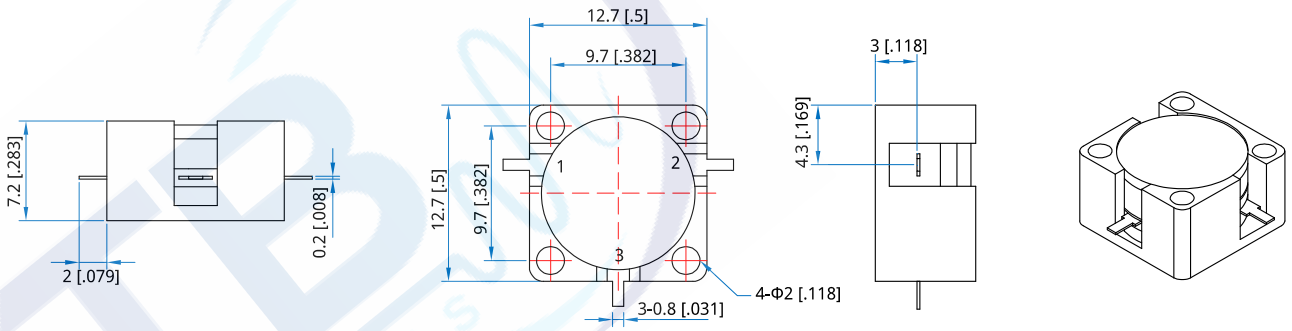
Description

NDC1313T series Drop-In Circulators cover frequency range 1.2~6GHz. 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.)	Average Power (W)	Temperature (°C)
1710~1785	75	0.30	23.0	1.20	60~100	-30~+70
1805~1880	75	0.30	23.0	1.20	60~100	-30~+70
1805~1920	115	0.40	20.0	1.25	60~100	-30~+70
1880~1920	40	0.30	23.0	1.20	60~100	-30~+70
2110~2170	60	0.30	23.0	1.20	60~100	-30~+70
2300~2400	100	0.30	23.0	1.20	60~100	-30~+70
2400~2500	100	0.30	23.0	1.20	60~100	-30~+70
2500~2700	200	0.30	23.0	1.20	60~100	-30~+70
2700~2900	200	0.30	23.0	1.20	60~100	-30~+70
2900~3100	200	0.30	23.0	1.20	60~100	-30~+70
3000~5000	200	0.35	20.0	1.25	60~100	-30~+70
3250~3450	200	0.35	20.0	1.25	60~100	-30~+70
3300~3500	200	0.35	20.0	1.25	60~100	-30~+70
3500~3650	150	0.35	20.0	1.25	60~100	-30~+70
5100~5900	800	0.45	18.0	1.30	60~100	-30~+70
5700~5900	200	0.40	20.0	1.25	60~100	-30~+70

Outline Drawings



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

Mechanical

Size[*1]:	12.7*12.7*7.2mm
	0.5*0.5*0.283in
Connector Type:	Strip line
Mounting:	4-Φ2mm through-hole

[1] Exclude connectors

How To Order

NDC1313T-X-Y-Z

X: Start frequency in MHz

Y: Stop frequency in MHz

Z: Average Power in W

Examples:

To order a NDC1313T series Circulator, 1447~1467MHz, 60W, specify NDC1313T-1447-1467-60.

Customization is available upon request.

NDC1313TB

High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

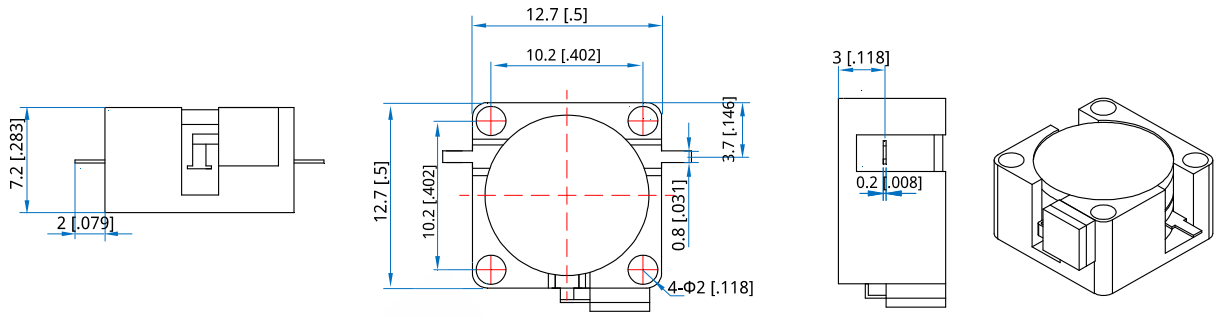
Description

NDC1313TB series Drop-In Circulators cover frequency range 2.11~2.17GHz. 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.)	Average Power (W)	Temperature (°C)
2110~2170	60	0.30	20.0	1.25	50	-40~+125

Outline Drawings



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

Mechanical

Size[*1]:	12.7*12.7*7.2mm 0.5*0.5*0.283in
Connector Type:	Strip line
Mounting:	4-Φ2mm through-hole

[1] Exclude connectors

Direction Naming Rules:

1 - Clockwise
2 - Anticlockwise

How To Order

NDC1313TB-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 NDC1313TB series Circulator, 2110~2170MHz, 50W, Clockwise, specify NDC1313TB-2110-2170-50-1.

Customization is available upon request.

NDC1319C

High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

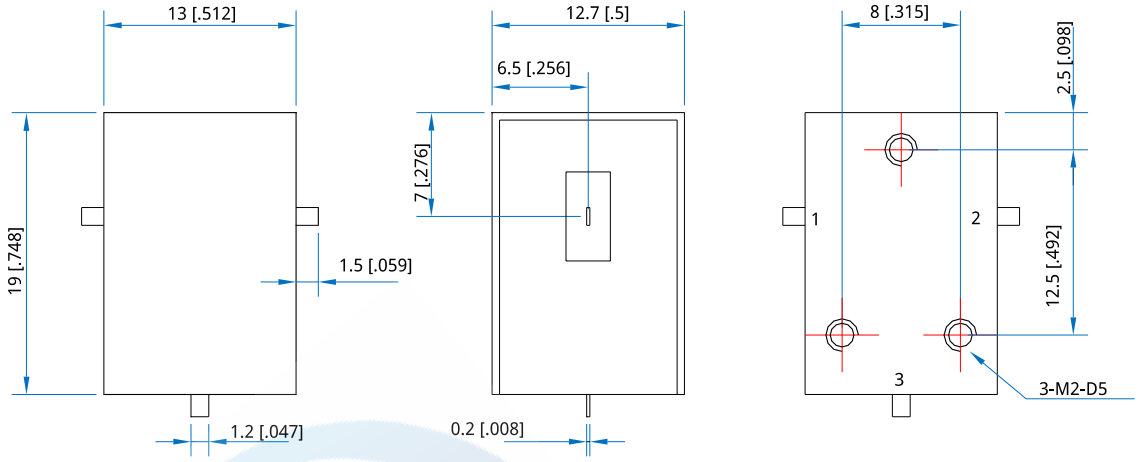
Description

NDC1319C series Drop-In Circulators cover frequency range 6~12GHz. 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.)	Average Power (W)	Temperature (°C)
8000~12000	4000	0.50	18.0	1.30	50	0~+60

Outline Drawings



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

Mechanical

Size[*1]:	13*19*12.7mm
	0.512*0.748*0.5in
Connector Type:	Strip line
Mounting:	3-M2, depth 5mm

[1] Exclude connectors

How To Order

NDC1319C-X-Y-Z
X: Start frequency in MHz
Y: Stop frequency in MHz
Z: Average Power in W

Examples:
To order a NDC1319C series Circulator, 6~10GHz, 50W, specify NDC1319C-6000-10000-50.

Customization is available upon request.

NDC1620B

High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

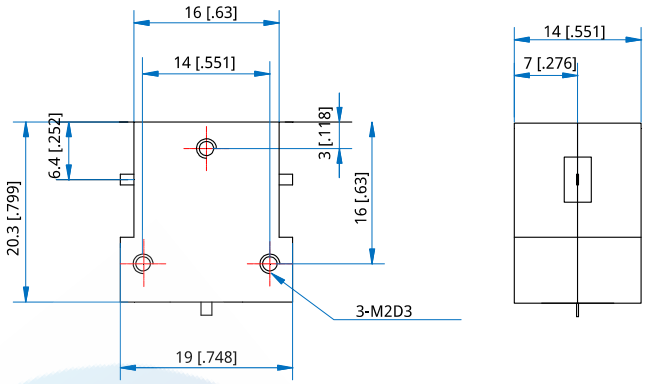
Description

NDC1620B series Drop-In Circulators cover frequency range 6~18GHz. 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.)	Average Power (W)	Temperature (°C)
6000~18000	12000	1.5	10	1.9	20	-30~+70
13500~16500	3000	0.6	18	1.3	30	-30~+70

Outline Drawings



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

Mechanical

Size[*1]:	16*20.3*14mm
	0.63*0.799*0.551in
Connector Type:	Strip line
Mounting:	3-M2mm deep 3 mm

[1] Exclude connectors

Direction Naming Rules:

1 - Clockwise
2 - Anticlockwise

How To Order

NDC1620B-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 NDC1620B series Circulator, 6~18GHz, 20W, Clockwise, specify NDC1620B-6000-18000-20-1.

Customization is available upon request.

Drop-In Circulators

NDC1623D

High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

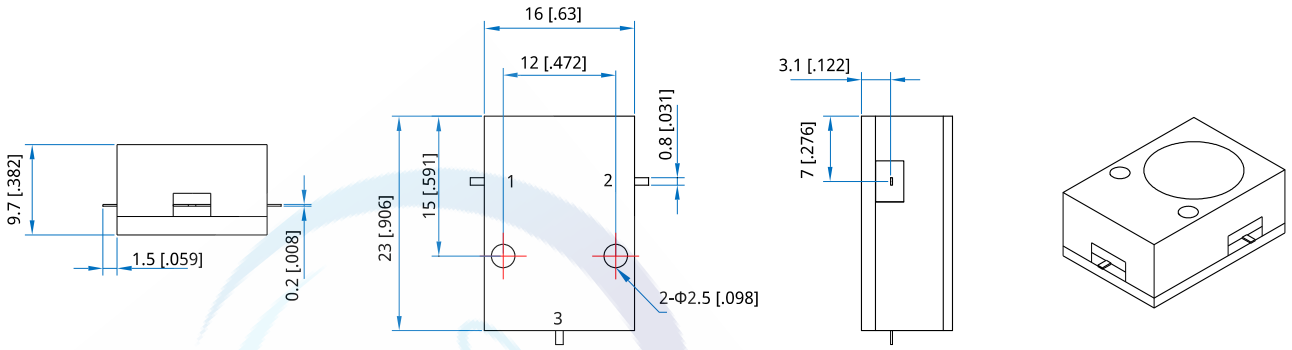
Description

NDC1623D series Drop-In Circulators cover frequency range 5~6.5GHz. 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.)	Average Power (W)	Temperature (°C)
5100~5900	800	0.50	18.0	1.30	10~50	-30~+70
5150~5500	350	0.40	20.0	1.25	10~50	-30~+70
5230~5340	110	0.30	23.0	1.20	10~50	-30~+70
5400~5900	500	0.40	20.0	1.25	10~50	-30~+70
5700~5900	200	0.30	23.0	1.20	10~50	-30~+70
5780~6000	220	0.30	23.0	1.25	10~50	-30~+70
5800~6500	700	0.40	20.0	1.25	10~50	-30~+70
6500~7000	500	0.40	20.0	1.25	10~50	-30~+70

Outline Drawings



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

Mechanical

Size[*1]:	16*23*9.7mm
	0.63*0.906*0.382in
Connector Type:	Strip line
Mounting:	2-Φ2.5mm through-hole

[1] Exclude connectors

How To Order

NDC1623D-X-Y-Z
X: Start frequency in MHz
Y: Stop frequency in MHz
Z: Average Power in W

Examples:
To order a NDC623D series Circulator, 5.1~5.9GHz, 50W, specify NDC1623D-5100-5900-50.
Customization is available upon request.

NDC1822D
High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

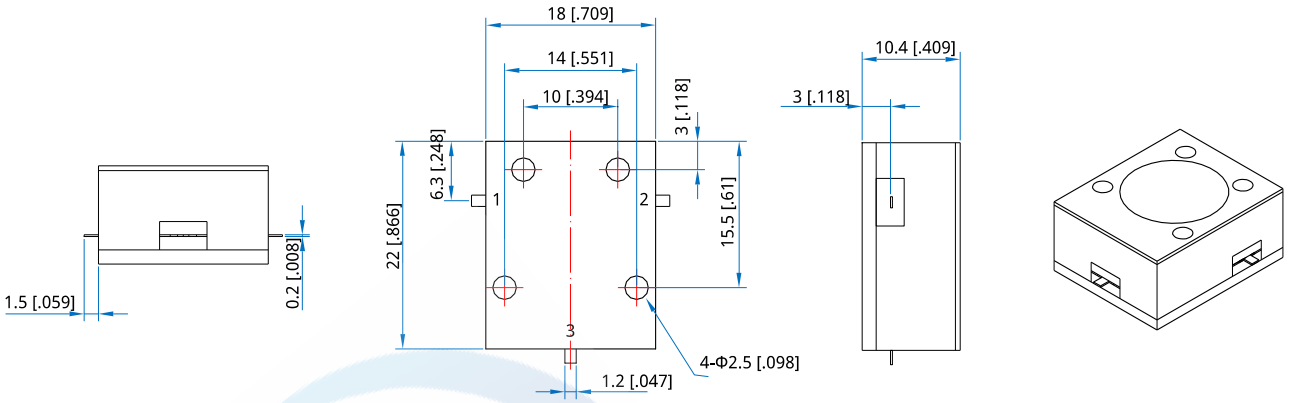
Description

NDC1822D series Drop-In Circulators cover frequency range 4~5GHz. 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.)	Average Power (W)	Temperature (°C)
4000~5000	1000	0.40	18.0	1.35	60	-30~+70
4350~5000	650	0.40	23.0	1.20	60	-30~+70

Outline Drawings



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

Mechanical

Size[*1]:	18*22*10.4mm 0.709*0.866*0.409in
Connector Type:	Strip line
Mounting:	4-Φ2.5mm through-hole

[1] Exclude connectors

How To Order

NDC1822D-X-Y-Z
X: Start frequency in MHz
Y: Stop frequency in MHz
Z: Average Power in W

Examples:
To order a NDC1822D series Circulator, 4~5GHz, 60W, specify NDC1822D-4000-5000-60.
Customization is available upon request.

NDC1919X
High Power, High Isolation

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

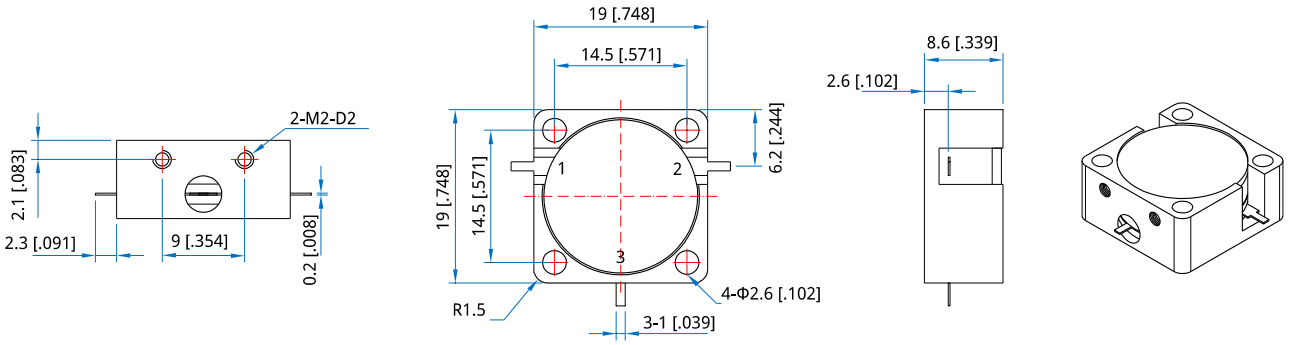
Applications:
* Wireless
* Radar
* Laboratory Test

Description

NDC1919X series Drop-In Circulators cover frequency range 800~4300MHz. 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.)	Average Power (W)	Temperature (°C)
800~1000	20	0.40	20.0	1.25	100	-30~+70
865~880	15	0.40	20.0	1.25	100	-30~+70
925~960	35	0.40	20.0	1.25	100	-30~+70
1000~1700	60	0.30	23.0	1.20	100	-30~+70
1000~1700	200	0.40	20.0	1.25	100	-30~+70
1030~1090	60	0.30	23.0	1.20	100	-30~+70
1000~1200	200	0.40	20.0	1.25	100	-30~+70
1100~1300	200	0.40	20.0	1.25	100	-30~+70
1325~1375	50	0.30	23.0	1.20	100	-30~+70
1500~1700	200	0.40	20.0	1.20	100	-30~+70
1700~3000	75	0.30	23.0	1.20	100	-30~+70
1700~3000	200	0.40	20.0	1.25	100	-30~+70
1700~1900	200	0.40	20.0	1.25	100	-30~+70
1710~1785	75	0.30	23.0	1.20	100	-30~+70
1805~1880	75	0.30	23.0	1.20	100	-30~+70
1920~1980	60	0.30	23.0	1.20	100	-30~+70
2110~2170	60	0.30	23.0	1.20	100	-30~+70
2000~2200	200	0.30	23.0	1.20	100	-30~+70
2100~2700	600	0.50	18.0	1.35	100	-30~+70
2200~2400	200	0.30	23.0	1.20	100	-30~+70
2300~2500	200	0.30	23.0	1.20	100	-30~+70
2300~2700	400	0.40	20.0	1.25	100	-30~+70
2700~3100	400	0.40	20.0	1.25	100	-30~+70
3100~3400	300	0.40	20.0	1.25	100	-30~+70
3400~3600	200	0.30	23.0	1.20	100	-30~+70
3400~4300	900	0.50	20.0	1.25	100	-30~+70



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

Mechanical

Size[*1]:	19*19*8.6mm
	0.748*0.748*0.339in
Connector Type:	Strip line
Mounting:	4-Φ2.6mm through-hole
	2-M2, depth 2mm

[1] Exclude connectors

How To Order

NDC1919X-X-Y-Z

X: Start frequency in MHz

Y: Stop frequency in MHz

Z: Average Power in W

Examples:

To order a NDC1919X series Circulator, 925~960MHz, 100W, specify NDC1919X-925-960-K1.

Customization is available upon request.

NDC2020X

High Power, High Isolation

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

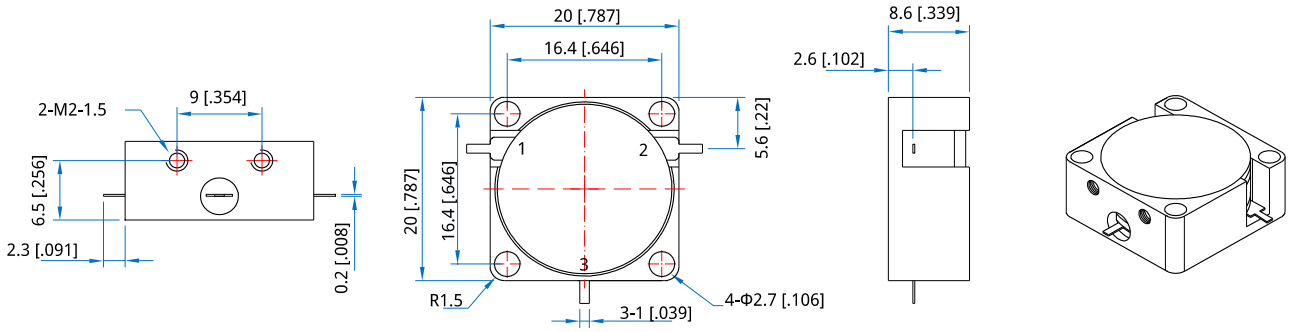
Applications:
* Wireless
* Radar
* Laboratory Test

Description

NDC2020X series Drop-In Circulators cover frequency range 600~4000MHz. 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.)	Average Power (W Max.)	Temperature (°C)
600~800	20	0.40	23.0	1.20	100	-30~+70
600~800	50	0.40	20.0	1.25	100	-30~+70
700~1300	30	0.25	25.0	1.15	100	-30~+70
700~1300	100	0.40	20.0	1.25	100	-30~+70
825~875	50	0.40	20.0	1.20	100	-30~+70
869-894	25	0.25	25.0	1.20	100	-30~+70
885~915	30	0.25	25.0	1.20	100	-30~+70
850~960	110	0.40	20.0	1.25	100	-30~+70
920~960	40	0.25	25.0	1.20	100	-30~+70
1030~1090	60	0.30	23.0	1.20	100	-30~+70
1300~3000	75	0.25	25.0	1.15	100	-30~+70
1300~3000	100	0.30	23.0	1.20	100	-30~+70
1300~3000	200	0.40	20.0	1.25	100	-30~+70
1500~1700	200	0.40	20.0	1.25	100	-30~+70
1700~1900	200	0.40	20.0	1.25	100	-30~+70
1900~2200	300	0.40	20.0	1.25	100	-30~+70
2100~2700	600	0.50	18.0	1.35	100	-30~+70
2300~2700	400	0.40	20.0	1.25	100	-30~+70
2400~2500	100	0.25	25.0	1.15	100	-30~+70
2500~2700	200	0.30	23.0	1.20	100	-30~+70
3000~4000	200	0.30	23.0	1.20	100	-30~+70
3000~4000	400	0.40	20.0	1.25	100	-30~+70
3200~3900	700	0.40	20.0	1.25	100	-30~+70
3300~3600	300	0.40	23.0	1.20	100	-30~+70
3400~4300	900	0.50	20.0	1.25	100	-30~+70
3600~3800	200	0.30	23.0	1.20	100	-30~+70



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

Mechanical

Size[*1]:	20*20*8.6mm
	0.787*0.787*0.339in
Connector Type:	Strip line
Mounting:	4-Φ2.7mm through-hole
	2-M2, depth 1.5mm

[1] Exclude connectors

How To Order

NDC2020X-X-Y-Z

X: Start frequency in MHz

Y: Stop frequency in MHz

Z: Average Power in W

Examples:

To order a NDC2020X series Circulator, 1805~1880MHz, 100W, specify NDC2020X-1805-1880-K1.

Customization is available upon request.

NDC2123B

High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

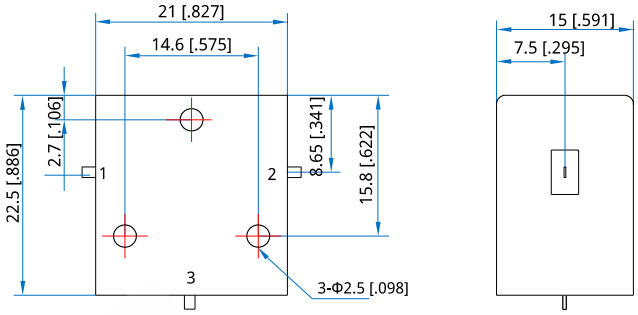
Description

NDC2123B series Drop-In Circulators cover frequency range 4~8GHz. 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.)	Average Power (W)	Temperature (°C)
4000~8000	4000	0.60	18.0	1.35	60	0~+60

Outline Drawings



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

Mechanical

Size[*1]:	21*22.5*15mm 0.827*0.886*0.591in
Connector Type:	Strip line
Mounting:	3-Φ2.5mm through-hole

[1] Exclude connectors

How To Order

NDC2123B-X-Y-Z
X: Start frequency in MHz
Y: Stop frequency in MHz
Z: Average Power in W

Examples:
To order a NDC2123B series Circulator, 4~8GHz, 60W, specify NDC2123B-4000-8000-60.

Customization is available upon request.

NDC2525X

High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

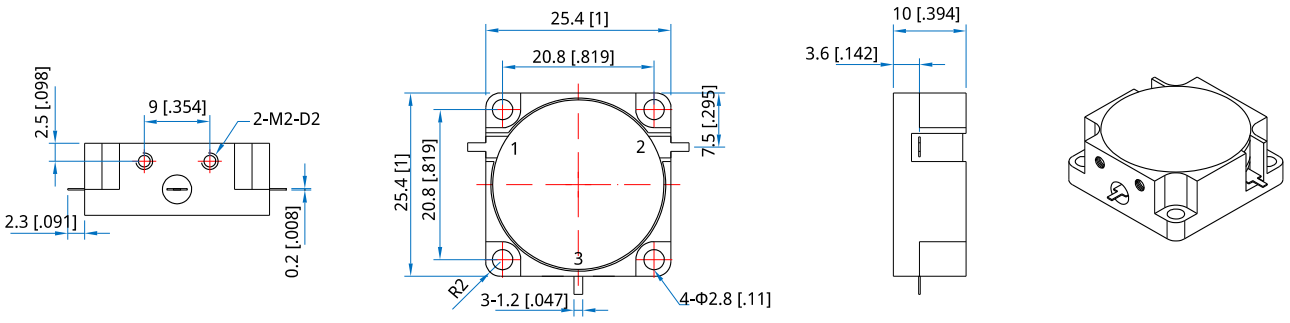
Description

NDC2525X series Drop-In Circulators cover frequency range 350~4000MHz. 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.)	Average Power (W)	Temperature (°C)
350~400	20	0.50	20.0	1.25	100~250	-30~+70
400~800	20	0.40	23.0	1.25	100~250	-30~+70
400~800	70	0.40	20.0	1.20	100~250	-30~+70
700~1300	30	0.25	25.0	1.15	100~250	-30~+70
700~1300	100	0.40	20.0	1.25	100~250	-30~+70
746~870	124	0.40	20.0	1.20	100~250	-30~+70
869~894	25	0.25	25.0	1.20	100~250	-30~+70
885~915	30	0.25	25.0	1.20	100~250	-30~+70
850~960	110	0.40	20.0	1.25	100~250	-30~+70
920~960	40	0.25	25.0	1.20	100~250	-30~+70
960~1215	255	0.40	20.0	1.25	100~250	-30~+70
1030~1090	60	0.30	23.0	1.20	100~250	-30~+70
1300~3000	75	0.25	25.0	1.15	100~250	-30~+70
1300~3000	100	0.30	23.0	1.20	100~250	-30~+70
1300~3000	200	0.40	20.0	1.25	100~250	-30~+70
1300~1800	500	0.40	16.0	1.40	100~250	-30~+70
1500~1700	200	0.40	20.0	1.25	100~250	-30~+70
1700~1900	200	0.40	20.0	1.25	100~250	-30~+70
1880~2650	770	0.65	15.0	1.45	100~250	-30~+70
1900~2200	300	0.40	20.0	1.25	100~250	-30~+70
2100~2700	600	0.50	18.0	1.35	100~250	-30~+70
2300~2700	400	0.40	20.0	1.25	100~250	-30~+70
2400~2500	100	0.25	25.0	1.15	100~250	-30~+70
3000~4000	200	0.30	23.0	1.20	100~250	-30~+70
3000~4000	400	0.40	20.0	1.25	100~250	-30~+70
3400~3600	200	0.30	23.0	1.20	100~250	-30~+70
3600~3800	200	0.30	23.0	1.20	100~250	-30~+70

Outline Drawings



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

Mechanical

Size[*1]:	25.4*25.4*10mm 1*1*0.394in
Connector Type:	Strip line
Mounting:	4-Φ2.8mm through-hole 2-M2, depth 2mm

[1] Exclude connectors

How To Order

NDC2525X-X-Y-Z

X: Start frequency in MHz

Y: Stop frequency in MHz

Z: Average Power in W

Examples:

To order a NDC2525X series Circulator, 350~370MHz, 100W, specify NDC2525X-350-370-K1.

Customization is available upon request.

NDC2528C

High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

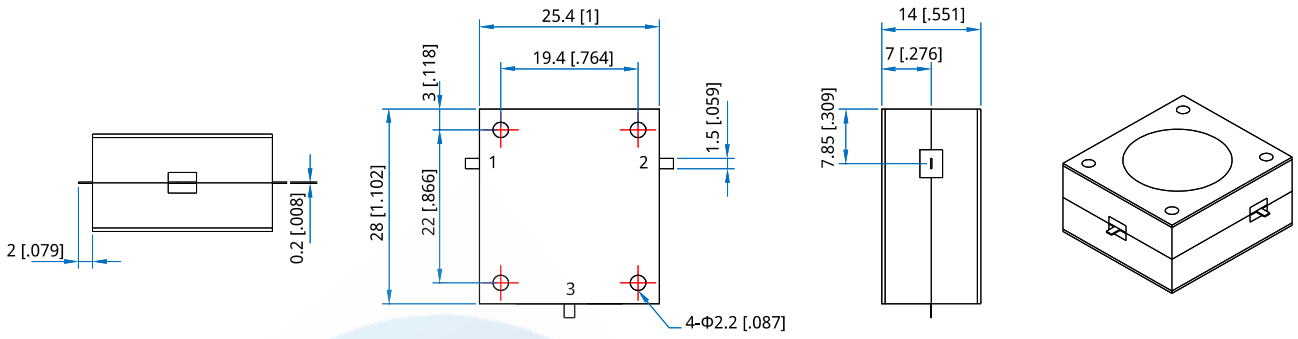
Description

NDC2528C series Drop-In Circulators cover frequency range 2.7~6GHz. 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.)	Average Power (W)	Temperature (°C)
2700~6200	3500	0.80	16.0	1.40	10~200	-30~+70
3000~6000	3000	0.60	18.0	1.35	10~200	-30~+70
3000~6000	500	0.40	20.0	1.25	10~200	-30~+70
5000~6000	1000	0.30	23.0	1.20	10~200	-30~+70

Outline Drawings



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

Mechanical

Size[*1]:	25.4*28*14mm
	1*1.102*0.551in
Connector Type:	Strip line
Mounting:	4-Φ2.2mm through-hole

[1] Exclude connectors

How To Order

NDC2528C-X-Y-Z
X: Start frequency in MHz
Y: Stop frequency in MHz
Z: Average Power in W

Examples:
To order a NDC2528C series Circulator, 2600~6000MHz, 60W, specify NDC2528C-2600-6000-60.

Customization is available upon request.

NDC3030B

High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

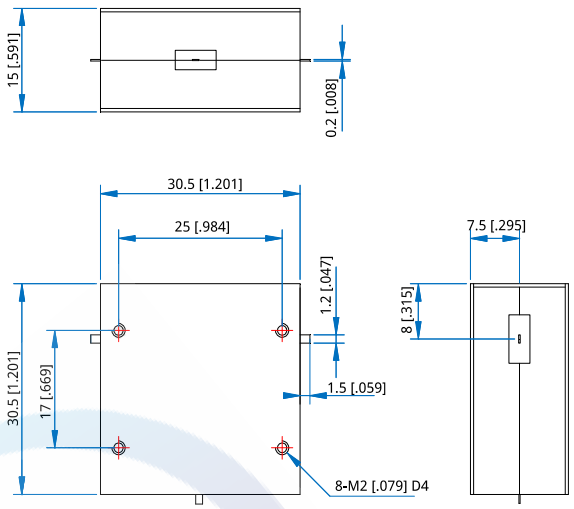
Description

NDC3030B series Drop-In Circulators cover frequency range 2~6GHz. 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.)	Average Power (W)	Temperature (°C)
2000~6000	4000	1.7	12	1.6	20	-40~+70

Outline Drawings



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

Mechanical

Size[*1]:	30.5*30.5*15mm
	1.201*1.201*0.591in
Connector Type:	Strip line
Mounting:	8-M2mm deep 4 mm

[1] Exclude connectors

Direction Naming Rules:

1 - Clockwise
2 - Anticlockwise

How To Order

NDC3030B-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 NDC3030B series Circulator, 2~6GHz, 20W, Clockwise, specify NDC3030B-2000-6000-20-1.

Customization is available upon request.

NDC3234A

High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

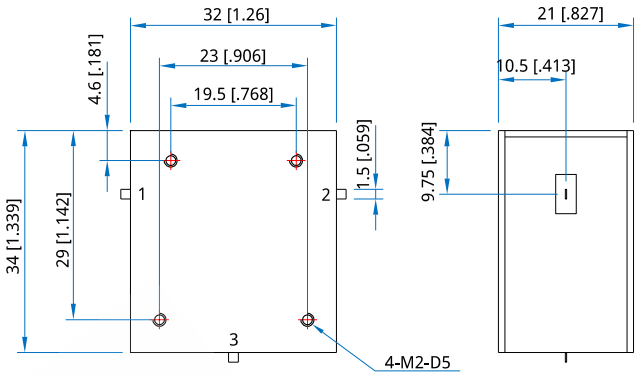
Description

NDC3234A series Drop-In Circulators cover frequency range 2~4GHz. 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.)	Average Power (W)	Temperature (°C)
2000~4000	2000	0.60	16.0	1.35	10~100	0~+60

Outline Drawings



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

Mechanical

Size[*1]:	32*34*21mm
	1.26*1.339*0.827in
Connector Type:	Strip line
Mounting:	4-M2, depth 5mm

[1] Exclude connectors

How To Order

NDC3234A-X-Y-Z
X: Start frequency in MHz
Y: Stop frequency in MHz
Z: Average Power in W

Examples:
To order a NDC3234A series Circulator, 2000~4000MHz, 100W, specify NDC3234A-2000-4000-K1.

Customization is available upon request.

NDC3538X

High Power, High Isolation

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

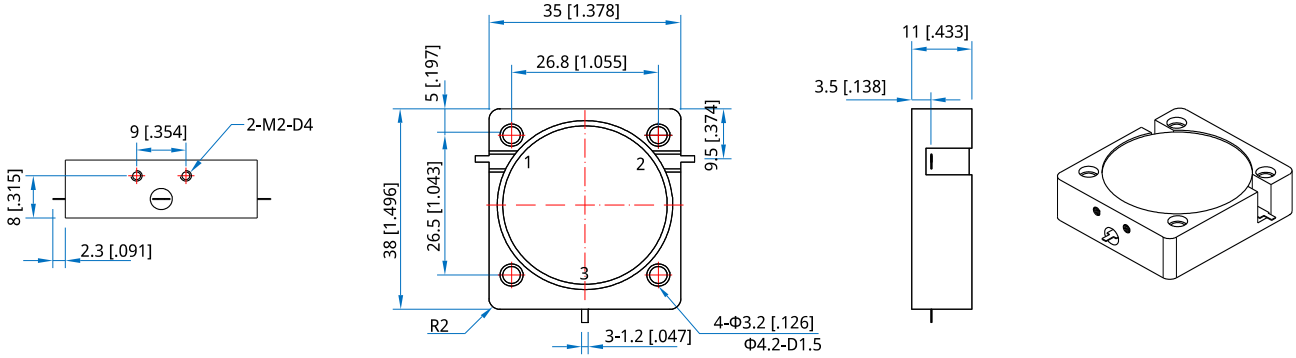
Applications:
* Wireless
* Radar
* Laboratory Test

Description

NDC3538X series Drop-In Circulators cover frequency range 300~1850MHz. 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.)	Average Power (W)	Temperature (°C)
300~350	50	0.70	18.0	1.35	100~300	-30~+70
300~400	20	0.40	20.0	1.25	100~300	-30~+70
350~370	20	0.40	23.0	1.20	100~300	-30~+70
361~366	5	0.40	23.0	1.20	100~300	-30~+70
400~470	70	0.40	20.0	1.25	100~300	-30~+70
400~600	20	0.30	23.0	1.20	100~300	-30~+70
400~600	50	0.40	20.0	1.25	100~300	-30~+70
470~570	100	0.40	20.0	1.25	100~300	-30~+70
500~700	200	0.70	18.0	1.30	100~300	-30~+70
600~800	30	0.25	25.0	1.15	100~300	-30~+70
600~800	100	0.30	23.0	1.20	100~300	-30~+70
600~800	200	0.45	19.0	1.25	100~300	-30~+70
700~1000	30	0.25	25	1.15	100~300	-30~+70
700~1000	100	0.30	23.0	1.20	100~300	-30~+70
700~1000	200	0.50	18.0	1.30	100~300	-30~+70
950~1450	500	0.60	18.0	1.30	100~300	-30~+70
960~1215	255	0.30	21.0	1.20	100~300	-30~+70
960~1260	300	0.45	20.0	1.25	100~300	-30~+70
1000~1500	500	0.60	18.0	1.30	100~300	-30~+70
1020~1040	20	0.25	25.0	1.15	100~300	-30~+70
1160~1610	450	0.50	20.0	1.25	100~300	-30~+70
1290~1310	20	0.25	25.0	1.15	100~300	-30~+70
1350~1850	500	0.50	20.0	1.25	100~300	-30~+70



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

Mechanical

Size[*1]:	35*35*11mm
	1.378*1.378*0.433in
Connector Type:	Strip line
Mounting:	4-Φ3.2mm through-hole
	Φ3.2mm, depth 1.5mm
	2-M2, depth 4mm

[1] Exclude connectors

How To Order

NDC3538X-X-Y-Z

X: Start frequency in MHz

Y: Stop frequency in MHz

Z: Average Power in W

Examples:

To order a NDC3538X series Circulator, 300~350MHz, 100W, specify NDC3538X-300-350-K1.

Customization is available upon request.

NDC3838X

High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

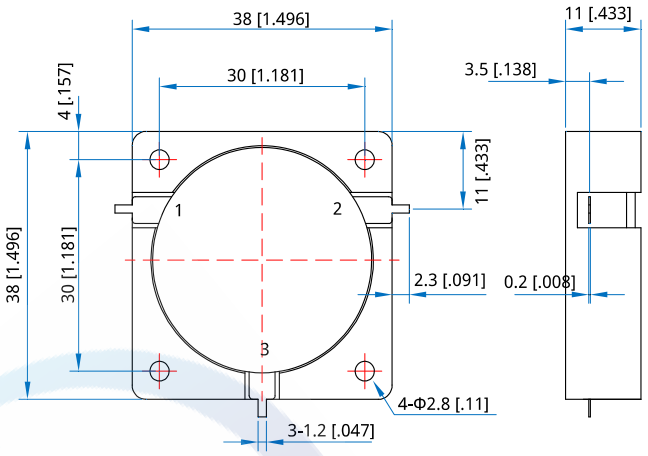
Description

NDC3838X series Drop-In Circulators cover frequency range 350~1850MHz. 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.)	Average Power (W Max.)	Temperature (°C)
470~570	100	0.40	20.0	1.25	300	-30~+70
600~702	102	0.30	23.0	1.20	300	-30~+70
700~806	106	0.30	23.0	1.20	300	-30~+70

Outline Drawings



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

Mechanical

Size[*1]:	38*38*11mm
	1.496*1.496*0.433in
Connector Type:	Strip line
Mounting:	4-Φ2.8mm through-hole

[1] Exclude connectors

How To Order

NDC3838X-X-Y-Z
X: Start frequency in MHz
Y: Stop frequency in MHz
Z: Average Power in W

Examples:
To order a NDC3838X series Circulator, 600~702MHz, 300W, specify NDC3838X-600-702-K3.

Customization is available upon request.

NDC4040A

High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

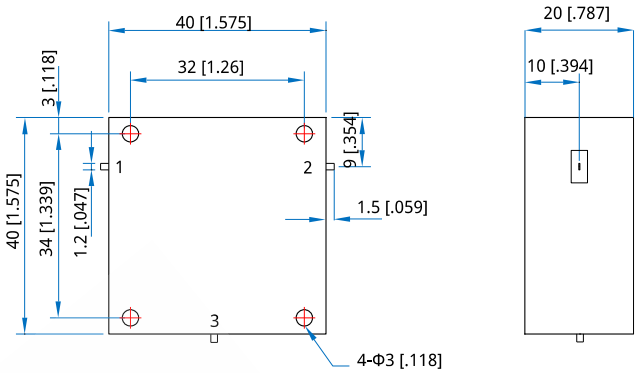
Description

NDC4040A series Drop-In Circulators cover frequency range 1.7~3GHz. 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.)	Average Power (W)	Temperature (°C)
1700~2700	1000	0.70	16.0	1.35	100~200	0~+60
1800~3000	1200	0.50	17.0	1.35	100~200	0~+60

Outline Drawings



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

Mechanical

Size*1:	40*40*20mm
	1.575*1.575*0.787in
Connector Type:	Strip line
Mounting:	4-Φ3mm through-hole

[1] Exclude connectors

How To Order

NDC4040A-X-Y-Z
X: Start frequency in MHz
Y: Stop frequency in MHz
Z: Average Power in W

Examples:
To order a NDC4040A series Circulator, 1700~2700MHz, 100W, specify NDC4040A-1700-2700-K1
.
Customization is available upon request.

NDC4545X

High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

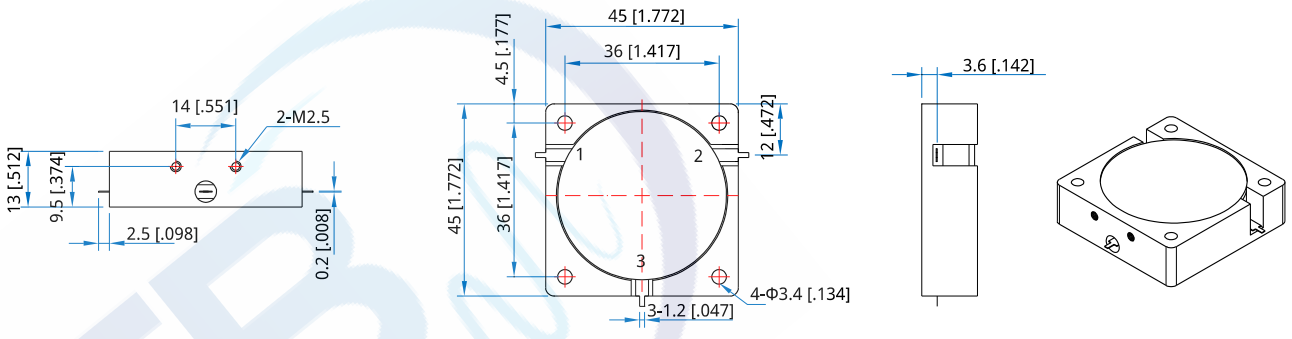
Description

NDC4545X series Drop-In Circulators cover frequency range 300~1000MHz. 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.)	Average Power (W)	Temperature (°C)
300~420	20	0.30	23.0	1.20	100~400	-30~+70
300~420	30	0.40	20.0	1.25	100~400	-30~+70
300~420	120	0.60	18.0	1.30	100~400	-30~+70
361~366	5	0.20	30.0	1.15	100~400	-30~+70
400~470	70	0.40	20.0	1.25	100~400	-30~+70
400~500	30	0.30	23.0	1.20	100~400	-30~+70
400~500	100	0.40	20.0	1.25	100~400	-30~+70
500~700	50	0.40	20.0	1.25	100~400	-30~+70
500~700	150	0.50	18.0	1.30	100~400	-30~+70
700~900	200	0.40	20.0	1.25	100~400	-30~+70
700~1000	300	0.50	18.0	1.30	100~400	-30~+70
800~1000	200	0.40	20.0	1.20	100~400	-30~+70
800~1100	300	0.50	18.0	1.30	100~400	-30~+70

Outline Drawings



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

Size[*1]:	45*45*13mm 1.772*1.772*0.512in
Connector Type:	Strip line
Mounting:	4-Φ3.4mm through-hole 2-M2.5

[1] Exclude connectors

How To Order

NDC4545X-X-Y-Z
X: Start frequency in MHz
Y: Stop frequency in MHz
Z: Average Power in W

Examples:

To order a NDC4545X series Circulator, 320~330MHz, 200W, specify NDC4545X-320-330-K2.

Customization is available upon request.

NDC5050A

High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

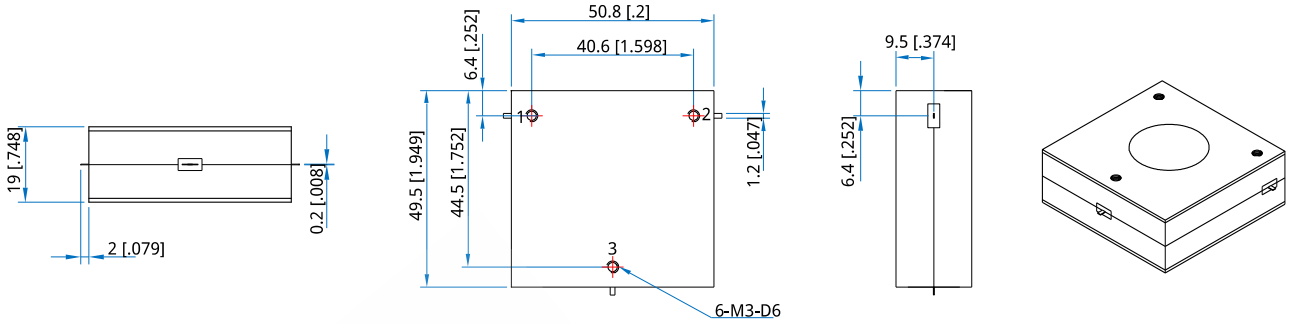
Description

NDC5050A series Drop-In Circulators cover frequency range 1.5~3GHz. 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.)	Average Power (W)	Temperature (°C)
1500~3000	1500	0.7	17	1.4	10~100	0~+60
1700~2500	800	0.5	18	1.3	100	-30~+85

Outline Drawings



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

Mechanical

Size[*1]:	50.8*49.5*19mm 2*1.949*0.748in
Connector Type:	Strip line
Mounting:	6-M3, depth 6mm

[1] Exclude connectors

How To Order

NDC5050A-X-Y-Z
X: Start frequency in MHz
Y: Stop frequency in MHz
Z: Average Power in W

Examples:
To order a NDC5050A series Circulator, 1300~2600MHz, 100W, specify NDC5050A-1300-2600-K1.

Customization is available upon request.

NDC5050X

High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

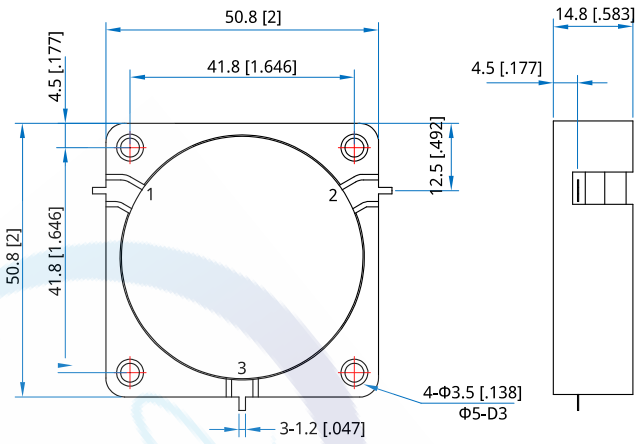
Description

NDC5050X series Drop-In Circulators cover frequency range 150~330MHz. High power, high isolation and low insertion loss make it ideal for alot of applications like amplifiers, transceivers, etc.

Specifications

Frequency (MHz)	Bandwidth (MHz)	Insertion Loss (dB Max.)	Isolation (dB Min.)	VSWR (Max.)	Average Power (W)	Temperature (°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: ±0.2mm [±0.008in]

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

Customization is available upon request.

How To Order

NDC5050X-X-Y-Z
X: Start frequency in MHz
Y: Stop frequency in MHz
Z: Average Power in W

Examples:
To order a NDC5050X series Circulator, 160~166MHz, 200W, specify NDC5050X-160-166-K2.

NDC6060H

High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

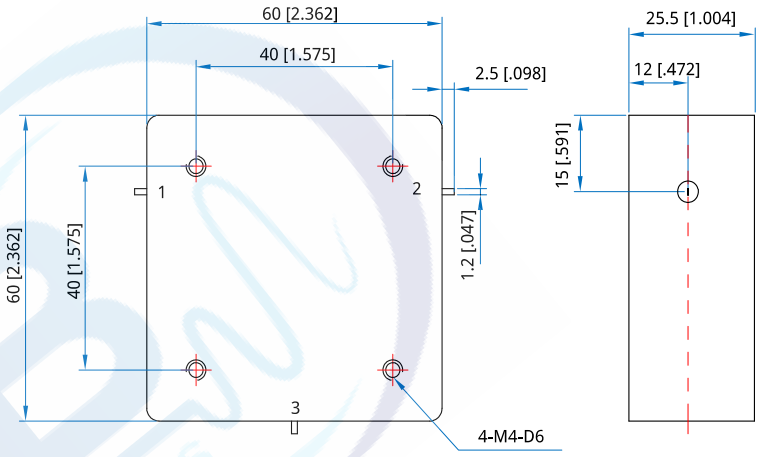
Description

NDC6060H series Drop-In Circulators cover frequency range 20~400MHz. High power, high isolation and low insertion loss make it ideal for alot of applications like amplifiers, transceivers, etc.

Specifications

Frequency (MHz)	Bandwidth (MHz)	Insertion Loss (dB Max.)	Isolation (dB Min.)	VSWR (Max.)	Average Power (W)	Temperature (°C)
20~30	0	2.00	18.0	1.30	10~100	-10~+60
30~80	0	1.20	20.0	1.25	10~100	-10~+60
30~80	5	1.80	18.0	1.30	10~100	-10~+60
88~108	20	0.60	20.0	1.25	10~100	-10~+60
100~140	40	1.20	18.0	1.30	10~100	-10~+60
108~118	10	0.50	20.0	1.20	10~100	-10~+60
116~138	22	0.60	20.0	1.25	10~100	-10~+60
130~180	50	0.60	20.0	1.25	10~100	-10~+60
136~174	38	0.50	20.0	1.25	10~100	-10~+60
150~170	20	0.40	20.0	1.20	10~100	-10~+60
170~230	60	0.60	20.0	1.25	10~100	-10~+60
225~400	175	0.80	18.0	1.30	10~100	-10~+60

Outline Drawings



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

Mechanical

Size[*1]:	60*60*25.5mm 2.362*2.362*1.004in
Connector Type:	Strip line
Mounting:	4-M4, depth 6mm

[1] Exclude connectors

How To Order

NDC6060H-X-Y-Z
X: Start frequency in MHz
Y: Stop frequency in MHz
Z: Average Power in W

Examples:
To order a NDC6060H series Circulator, 70~75MHz, 50W, specify NDC6060H-70-75-50.

Customization is available upon request.

NDC6466H

High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

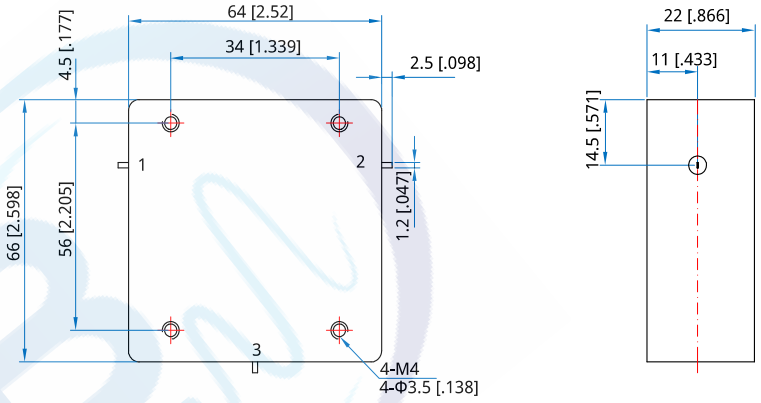
Description

NDC6466H series Drop-In Circulators cover frequency range 20~400MHz. High power, high isolation and low insertion loss make it ideal for alot of applications like amplifiers, transceivers, etc.

Specifications

Frequency (MHz)	Bandwidth (MHz)	Insertion Loss (dB Max.)	Isolation (dB Min.)	VSWR (Max.)	Average Power (W)	Temperature (°C)
20~30	0	2.00	18.0	1.30	10~100	-10~+60
30~80	0	1.20	20.0	1.25	10~100	-10~+60
30~80	5	1.80	18.0	1.30	10~100	-10~+60
88~108	20	0.60	20.0	1.25	10~100	-10~+60
100~140	40	1.20	18.0	1.30	10~100	-10~+60
108~118	10	0.50	20.0	1.20	10~100	-10~+60
116~138	22	0.60	20.0	1.25	10~100	-10~+60
130~180	50	0.60	20.0	1.25	10~100	-10~+60
136~174	38	0.50	20.0	1.25	10~100	-10~+60
150~170	20	0.40	20.0	1.20	10~100	-10~+60
170~230	60	0.60	20.0	1.25	10~100	-10~+60
225~400	175	0.80	18.0	1.30	10~100	-10~+60

Outline Drawings



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

NDC6466H

Drop-In Circulators

Mechanical

Size[*1]:	64*66*22mm
	2.25*2.598*0.866in
Connector Type:	Strip line
Mounting:	4-Φ3.5mm through-hole
	4-M4

[1] Exclude connectors

How To Order

NDC6466H-X-Y-Z
X: Start frequency in MHz
Y: Stop frequency in MHz
Z: Average Power in W

Examples:

To order a NDC6466H series Circulator, 55~75MHz, 100W, specify NDC6466H-55-75-K1.

Customization is available upon request.

NDC6466K

High Power, High Isolation

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

Applications:
* Wireless
* Radar
* Laboratory Test

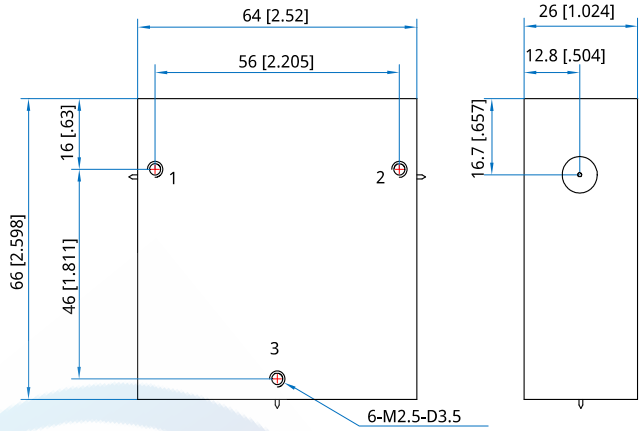
Description

NDC6466K series Drop-In Circulators cover frequency range 950~2000MHz. 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.)	Average Power (W Max.)	Temperature (°C)
950~2000	1050	0.70	16.0	1.40	10~100	-10~+60
1000~2000	1000	0.60	17.0	1.40	10~100	-10~+60

Outline Drawings



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

Mechanical

Size[*1]:	64*66*26mm
	2.25*2.598*1.024in
Connector Type:	Strip line
Mounting:	6-M2.5, depth 3.5mm

[1] Exclude connectors

How To Order

NDC6466K-X-Y-Z
X: Start frequency in MHz
Y: Stop frequency in MHz
Z: Average Power in W

Examples:
To order a NDC6466K series Circulator, 950~2000MHz, 100W, specify NDC6466K-950-2000-K1.

Customization is available upon request.