

NSC7

High Power, High Isolation

Features:

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

Applications:

- * Wireless
- * Radar
- * Laboratory Test

Description

NSC7 series Surface Mount Circulators cover frequency range 1805~5000MHz. 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.)	Average Power (W)	Temperature (°C)
1805-1880	75	0.50	20.0	1.25	15	-40 ~ +85
2110-2170	60	0.40	20.0	1.25	15	-40 ~ +85
2496-2690	194	0.30	20.0	1.25	15	-40 ~ +85
2500-2700	200	0.35	20.0	1.25	15	-40 ~ +85
3300-3800	500	0.50	16.0	1.40	15	-40 ~ +85
3400-3600	200	0.30	20.0	1.25	15	-40 ~ +85
4800-5000	200	0.30	20.0	1.25	15	-40 ~ +85

Mechanical

Size: $\Phi 7 \times 5.5\text{mm}$
 $\Phi 0.276 \times 0.217\text{in}$

How To Order

NSC7-W-X-Y-Z

W: Start frequency in MHz

X: Stop frequency in MHz

Y: Average power in W

Z: Direction type

Direction Naming Rules:

1 - Clockwise

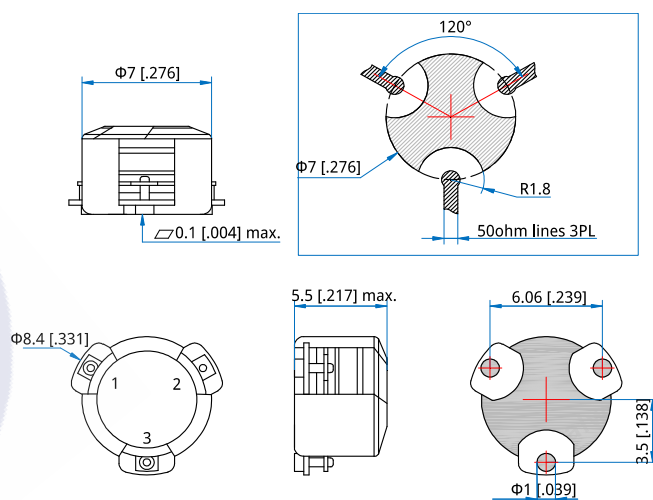
2 - Anticlockwise

Examples:

To order a NSC7 series Circulator, 3.4~3.6GHz, 15W, Clockwise, specify NSC7-3400-3600-15-1.

Customization is available upon request.

Outline Drawings



Unit: mm [inch]

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

NSC10

High Power, High Isolation

Features:

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

Applications:

- * Wireless
- * Radar
- * Laboratory Test

Description

NSC10 series Surface Mount Circulators cover frequency range 1805~5100MHz. 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.)	Average Power (W)	Temperature (°C)
1805-1880	75	0.50	18.0	1.30	30	-40 ~ +85
2110-2170	60	0.50	18.0	1.30	30	-40 ~ +85
3400-3600	200	0.50	17.0	1.35	20	-40 ~ +85
4800-5100	300	0.40	20.0	1.25	30	-40 ~ +85

Mechanical

Size: $\Phi 10 \times 7\text{mm}$
 $\Phi 0.394 \times 0.276\text{in}$

How To Order

NSC10-W-X-Y-Z

W: Start frequency in MHz

X: Stop frequency in MHz

Y: Average power in W

Z: Direction type

Direction Naming Rules:

1 - Clockwise

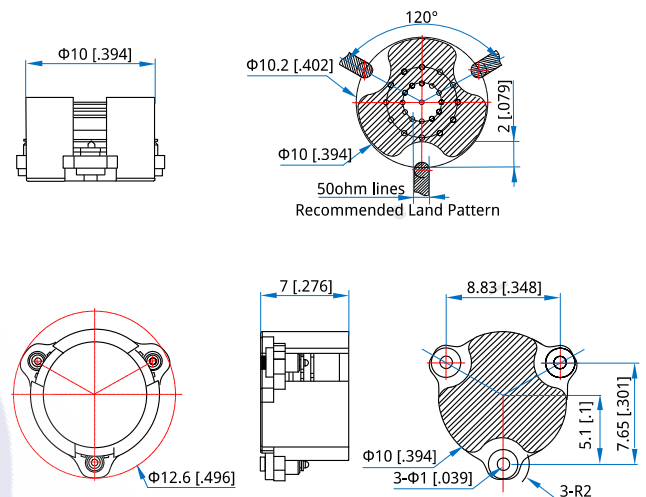
2 - Anticlockwise

Examples:

To order a NSC10 series Circulator, 3.4~3.6GHz, 20W, Clockwise, specify NSC10-3400-3600-20-1.

Customization is available upon request.

Outline Drawings



Unit: mm [inch]

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

NSC12R3A

High Power, High Isolation

Features:

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

Applications:

- * Wireless
- * Radar
- * Laboratory Test

Description

NSC12R3A series Surface Mount Circulators cover frequency range 1400~6000MHz. 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.)	Average Power (W)	Temperature (°C)
3300-3600	300	0.30	20.0	1.25	100	-40 ~ +85
4800-5600	800	0.80	18.0	1.30	10	-40 ~ +85
5000-6000	1000	0.50	18.0	1.30	60	-40 ~ +85
5500-6000	500	0.40	20.0	1.25	60	-40 ~ +85

Mechanical

Size: $\Phi 12.3 \times 7 \text{mm}$
 $\Phi 0.484 \times 0.276 \text{in}$

How To Order

NSC12R3A-W-X-Y-Z

W: Start frequency in MHz

X: Stop frequency in MHz

Y: Average power in W

Z: Direction type

Direction Naming Rules:

1 - Clockwise

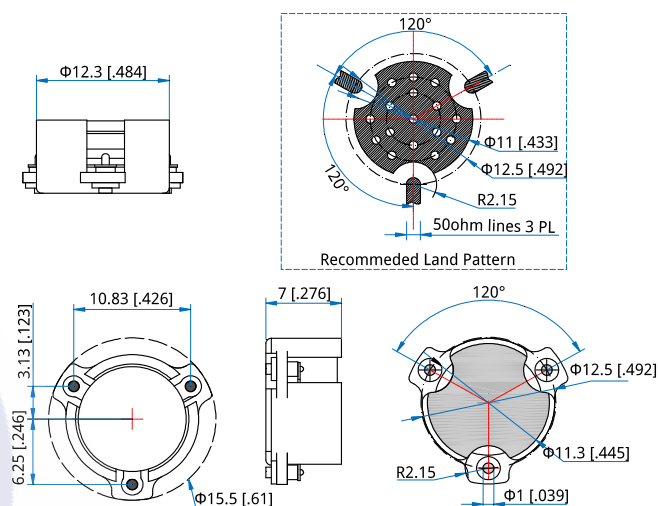
2 - Anticlockwise

Examples:

To order a NSC12R3A series Circulator, 3.3~3.6GHz, 100W, Clockwise, specify NSC12R3A-3300-3600-100-1.

Customization is available upon request.

Outline Drawings



Unit: mm [inch]

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

NSC12R3B

High Power, High Isolation

Features:

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

Applications:

- * Wireless
- * Radar
- * Laboratory Test

Description

NSC12R3B series Surface Mount Circulators cover frequency range 1400~6000MHz. 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.)	Average Power (W)	Temperature (°C)
2496-2696	200	0.30	23.0	1.20	60	-40 ~ +85
3250-3450	200	0.35	20.0	1.25	30	-40 ~ +85
3300-3500	200	0.35	20.0	1.25	40	-40 ~ +85
3300-3800	500	0.60	18.0	1.30	60	-40 ~ +85
3400-4000	600	0.60	17.0	1.30	60	-40 ~ +85

Mechanical

Size: $\Phi 12.3 \times 7 \text{mm}$
 $\Phi 0.484 \times 0.276 \text{in}$

How To Order

NSC12R3B-W-X-Y-Z

W: Start frequency in MHz

X: Stop frequency in MHz

Y: Average power in W

Z: Direction type

Direction Naming Rules:

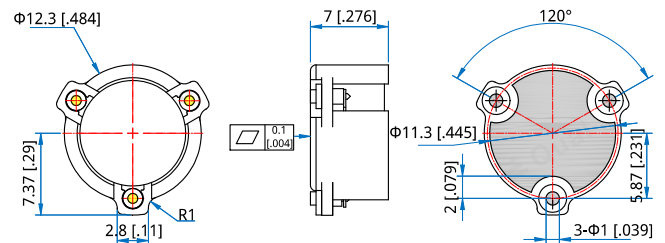
- 1 - Clockwise
- 2 - Anticlockwise

Examples:

To order a NSC12R3B series Circulator, 3.3~3.8GHz, 60W, Clockwise, specify NSC12R3B-3300-3800-60-1.

Customization is available upon request.

Outline Drawings



Unit: mm [inch]

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

NSC12R5

High Power, High Isolation

Features:

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

Applications:

- * Wireless
- * Radar
- * Laboratory Test

Description

NSC12R5 series Surface Mount Circulators cover frequency range 800~6000MHz. 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.)	Average Power (W)	Temperature (°C)
790-810	20	0.40	20.0	1.25	60	-40 ~ +85
800-830	30	0.40	20.0	1.25	60	-40 ~ +85
900-930	30	0.40	20.0	1.25	100	-40 ~ +85
930-960	30	0.30	20.0	1.25	100	-40 ~ +85
1420-1450	30	0.40	20.0	1.25	60	-40 ~ +85
1710-1785	75	0.40	20.0	1.25	100	-40 ~ +85
1805-1880	75	0.40	20.0	1.25	100	-40 ~ +85
1930-1990	60	0.30	23.0	1.20	100	-40 ~ +85
2110-2170	60	0.30	23.0	1.20	100	-40 ~ +85
2400-2500	100	0.30	21.0	1.20	30	-40 ~ +85
4400-5000	600	0.50	18.0	1.30	60	-40 ~ +85
5700-5900	200	0.40	20.0	1.25	60	-40 ~ +85

Mechanical

Size: $\Phi 12.5 \times 7 \text{mm}$
 $\Phi 0.492 \times 0.276 \text{in}$

How To Order

NSC12R5-W-X-Y-Z

W: Start frequency in MHz
X: Stop frequency in MHz
Y: Average power in W
Z: Direction type

Direction Naming Rules:

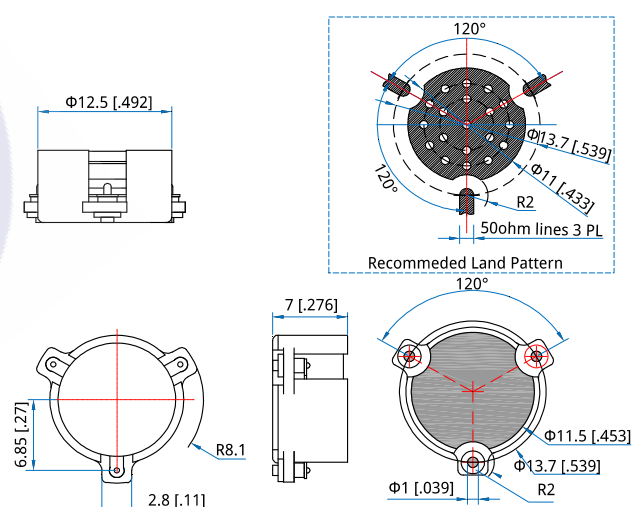
- 1 - Clockwise
- 2 - Anticlockwise

Examples:

To order a NSC12R5 series Circulator, 0.79~0.81GHz, 60W, Clockwise, specify NSC12R5-790-810-60-1.

Customization is available upon request.

Outline Drawings



Unit: mm [inch]

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

NSC15

High Power, High Isolation

Features:

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

Applications:

- * Wireless
- * Radar
- * Laboratory Test

Description

NSC15 series Surface Mount Circulators cover frequency range 800~3650MHz. 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.)	Average Power (W)	Temperature (°C)
800-870	70	0.60	18.0	1.30	60	-40 ~ +85
900-930	30	0.40	20.0	1.25	60	-40 ~ +85
1300-1400	100	0.60	18.0	1.30	60	-40 ~ +85
1400-1500	100	0.60	18.0	1.30	60	-40 ~ +85
1710-1880	170	0.50	20.0	1.25	100	-40 ~ +85
1800-2200	400	0.50	18.0	1.30	60	-40 ~ +85
1805-1880	75	0.40	20.0	1.25	100, 30	-40 ~ +85
1805-1920	115	0.40	20.0	1.25	100	-40 ~ +85
1880-1920	40	0.30	23.0	1.20	100	-40 ~ +85
1980-2010	30	0.30	23.0	1.20	100	-40 ~ +85
2110-2170	60	0.30	23.0	1.20	100	-40 ~ +85
2170-2200	30	0.30	23.0	1.20	100	-40 ~ +85
2200-2500	300	0.40	20.0	1.25	60	-40 ~ +85
2300-2400	100	0.30	23.0	1.20	100	-40 ~ +85
2300-2500	200	0.40	20.0	1.25	100	-40 ~ +85
2300-2700	400	0.50	18.0	1.30	60	-40 ~ +85
2320-2370	50	0.30	23.0	1.20	100	-40 ~ +85
2400-2500	100	0.30	23.0	1.20	100	-40 ~ +85
2496-2696	200	0.30	23.0	1.20	60	-40 ~ +85
2500-2700	200	0.30	23.0	1.20	100	-40 ~ +85
2555-2655	100	0.30	23.0	1.20	100	-40 ~ +85
2620-2690	70	0.30	23.0	1.20	100	-40 ~ +85
3250-3450	200	0.35	20.0	1.20	100	-40 ~ +85
3300-3500	200	0.35	20.0	1.20	100	-40 ~ +85
3300-3800	500	0.50	19.0	1.25	60	-40 ~ +85
3400-3600	200	0.30	23.0	1.20	100	-40 ~ +85
3500-3650	150	0.35	21.0	1.20	50	-40 ~ +85

Mechanical

Size: $\Phi 15.2 \times 7\text{mm}$
 $\Phi 0.598 \times 0.276\text{in}$

How To Order

NSC15-W-X-Y-Z

W: Start frequency in MHz

X: Stop frequency in MHz

Y: Average power in W

Z: Direction type

Direction Naming Rules:

1 - Clockwise

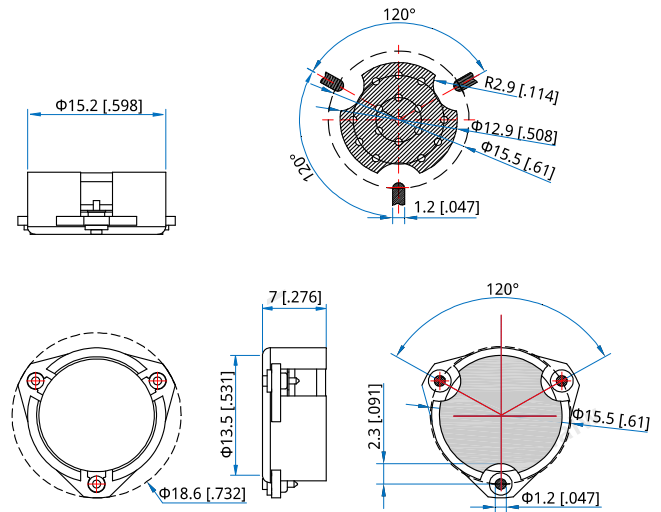
2 - Anticlockwise

Examples:

To order a NSC15 series Circulator, 0.8~0.87GHz, 60W, Clockwise, specify NSC15-800-870-60-1.

Customization is available upon request.

Outline Drawings



Unit: mm [inch]

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

NSC18

High Power, High Isolation

Features:

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

Applications:

- * Wireless
- * Radar
- * Laboratory Test

Description

NSC18 series Surface Mount Circulators cover frequency range 1400~2655MHz. 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.)	Average Power (W)	Temperature (°C)
1400-1500	100	0.35	23.0	1.20	100	-40 ~ +85
2100-2200	100	0.25	23.0	1.20	100	-40 ~ +85
2110-2170	60	0.30	23.0	1.20	100	-40 ~ +85
2555-2655	100	0.25	23.0	1.20	100	-40 ~ +85

Mechanical

Size: $\Phi 18 \times 8 \text{mm}$
 $\Phi 0.709 \times 0.315 \text{in}$

How To Order

NSC18-W-X-Y-Z

W: Start frequency in MHz

X: Stop frequency in MHz

Y: Average power in W

Z: Direction type

Direction Naming Rules:

1 - Clockwise

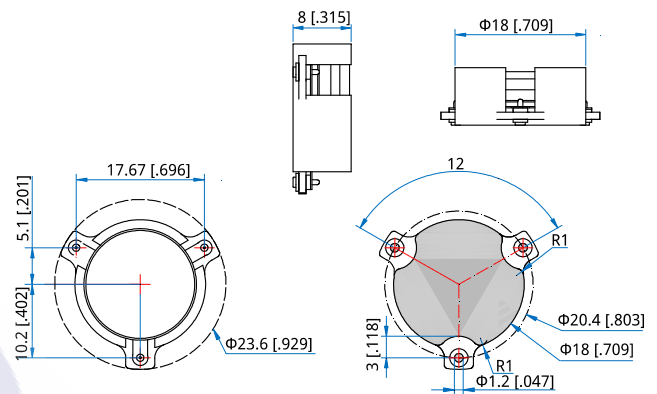
2 - Anticlockwise

Examples:

To order a NSC18 series Circulator, 1.4~1.5GHz, 100W, Clockwise, specify NSC18-1400-1500-K1-1.

Customization is available upon request.

Outline Drawings



Unit: mm [inch]

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

NSC20

High Power, High Isolation

Features:

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

Applications:

- * Wireless
- * Radar
- * Laboratory Test

Description

NSC20 series Surface Mount Circulators cover frequency range 700~2800MHz. 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.)	Average Power (W)	Temperature (°C)
700-780	80	0.40	20.0	1.25	100	-40 ~ +85
700-800	100	0.80	18.0	1.30	100	-40 ~ +85
703-748	45	0.40	20.0	1.25	100	-40 ~ +85
725-775	50	0.30	23.0	1.20	100	-40 ~ +85
758-803	45	0.40	21.0	1.20	100	-40 ~ +85
758-830	72	0.40	18.0	1.30	100	-40 ~ +85
770-800	30	0.30	23.0	1.20	100	-40 ~ +85
790-825	35	0.30	23.0	1.20	100	-40 ~ +85
800-840	40	0.30	23.0	1.20	100	-40 ~ +85
800-900	100	0.40	20.0	1.25	100	-40 ~ +85
806-821	15	0.30	23.0	1.20	100	-40 ~ +85
806-826	20	0.30	23.0	1.20	100	-40 ~ +85
808-940	132	0.40	20.0	1.25	100	-40 ~ +85
825-835	10	0.30	23.0	1.20	100	-40 ~ +85
825-865	40	0.40	20.0	1.20	100	-40 ~ +85
850-900	50	0.30	22.0	1.20	100	-40 ~ +85
850-950	100	0.40	21.0	1.25	100	-40 ~ +85
860-960	100	0.40	21.0	1.25	100	-40 ~ +85
870-880	10	0.30	23.0	1.20	100	-40 ~ +85
880-960	80	0.45	20.0	1.25	100	-40 ~ +85
885-915	30	0.30	23.0	1.20	100	-40 ~ +85
900-930	30	0.30	23.0	1.20	100	-40 ~ +85
902-928	26	0.30	23.0	1.20	100	-40 ~ +85
920-960	40	0.30	23.0	1.20	100	-40 ~ +85
1000-1100	100	0.40	20.0	1.25	100	-40 ~ +85
1000-1200	200	0.40	20.0	1.20	100	-40 ~ +85
1000-1300	300	0.40	20.0	1.25	100	-40 ~ +85
1030-1090	60	0.40	23.0	1.20	100	-40 ~ +85
1200-1400	200	0.40	20.0	1.20	100	-40 ~ +85

1290-1310	20	0.30	23.0	1.20	100	-40 ~ +85
1400-1500	100	0.30	23.0	1.20	100	-40 ~ +85
1500-1550	50	0.30	23.0	1.20	100	-40 ~ +85
1500-1600	100	0.30	23.0	1.20	100	-40 ~ +85
1500-1700	200	0.40	20.0	1.25	100	-40 ~ +85
1550-1620	70	0.30	23.0	1.20	100	-40 ~ +85
1600-1700	100	0.30	23.0	1.20	100	-40 ~ +85
1670-1710	40	0.30	23.0	1.20	100	-40 ~ +85
1700-2200	500	0.60	18.0	1.30	100	-40 ~ +85
1710-1785	75	0.30	23.0	1.20	100	-40 ~ +85
1710-1880	170	0.40	20.0	1.25	100	-40 ~ +85
1805-2170	365	0.40	20.0	1.25	100	-40 ~ +85
1880-2650	770	0.60	15.0	1.50	100	-40 ~ +85
1920-2170	250	0.40	20.0	1.25	100	-40 ~ +85
2110-2170	60	0.30	23.0	1.20	100	-40 ~ +85
2200-2800	600	0.50	18.0	1.30	100	-40 ~ +85
2300-2700	400	0.40	20.0	1.25	100	-40 ~ +85
2400-2500	100	0.30	23.0	1.20	100	-40 ~ +85
2500-2700	200	0.30	23.0	1.20	100	-40 ~ +85

Mechanical

Size: $\Phi 20 \times 8 \text{mm}$
 $\Phi 0.787 \times 0.315 \text{in}$

Connector Type: SMD

How To Order

NSC20-W-X-Y-Z

W: Start frequency in MHz

X: Stop frequency in MHz

Y: Average power in W

Z: Direction type

Direction Naming Rules:

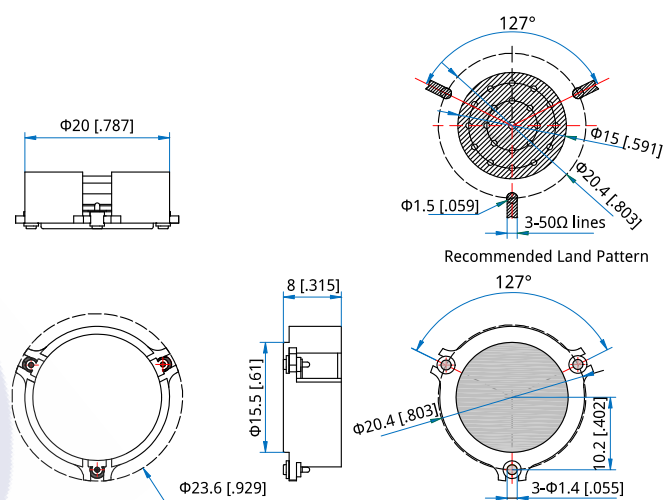
1 - Clockwise

2 - Anticlockwise

Examples:

To order a NSC20 series Circulator, 1.4~1.5GHz, 100W, Clockwise, specify NSC20-1400-1500-100-1.

Outline Drawings



Unit: mm [inch]

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

Customization is available upon request.

NSC25R4

High Power, High Isolation

Features:

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

Applications:

- * Wireless
- * Radar
- * Laboratory Test

Description

NSC25R4 series Surface Mount 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)	IL (dB Max.)	Isolation (dB Min.)	VSWR (Max.)	Average Power (W)	Temperature (°C)
410-460	50	0.50	18.0	1.30	100	-40 ~ +85
483-488	5	0.40	23.0	1.20	100	-40 ~ +85
485-505	20	0.40	23.0	1.20	100	-40 ~ +85

Mechanical

Size: $\Phi 25.4 \times 9.5\text{mm}$
 $\Phi 1 \times 0.374\text{in}$

How To Order

NSC25R4-W-X-Y-Z

W: Start frequency in MHz

X: Stop frequency in MHz

Y: Average power in W

Z: Direction type

Direction Naming Rules:

1 - Clockwise

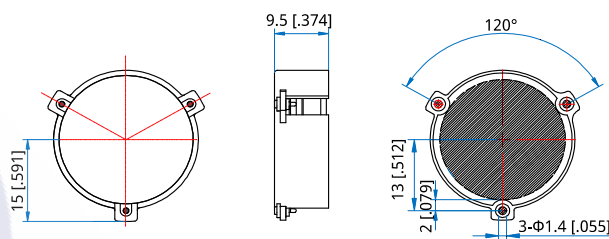
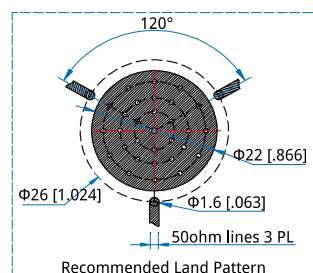
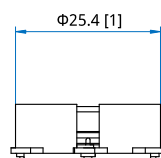
2 - Anticlockwise

Examples:

To order a NSC25R4 series Circulator, 0.41~0.46GHz, 100W, Clockwise, specify NSC25R4-410-460-K1-1.

Customization is available upon request.

Outline Drawings



Unit: mm [inch]

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