

NBF-43500-49500-20

43.5~49.5GHz, 20dBc

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	43.5~49.5GHz
Passband Insertion Loss:	1.5dB max.
VSWR:	1.6 max.
Stopband Attenuation :	20dBc@41.5GHz min. 20dBc@51.5GHz min. 40dBc@70GHz min.

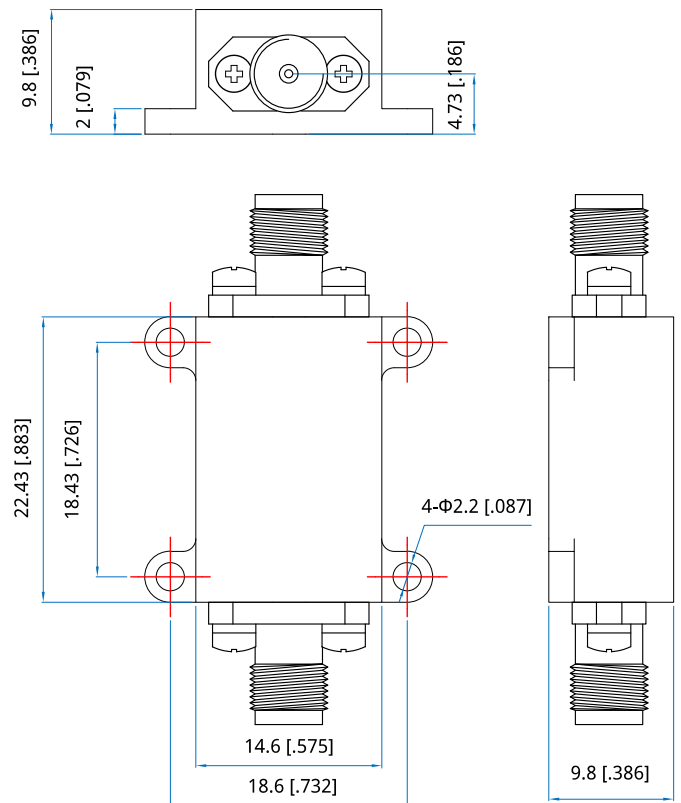
Mechanical

RF Connectors:	2.4mm Female, removable Φ0.3mm inner pin
Mounting:	4*Φ2.1mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-43500-49500-20

Customization is available upon request.

NBF-10200-10600-30

10.2~10.6GHz, 30dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	10.2~10.6GHz
Passband Insertion Loss:	1.5dB max.
VSWR:	1.5 max.
Stopband Attenuation:	30dB@10GHz min. 30dB@10.8GHz min.

Mechanical

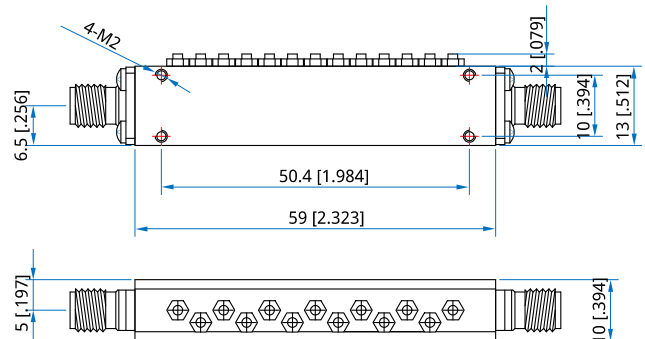
Size ^{*1} :	59*13*10mm 2.323*0.512*0.394in
Connectors:	SMA Female
Mounting:	4-M2 through hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-10200-10600-30

Customization is available upon request.

NBF-10200-10800-30

10.2~10.8GHz, 30dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

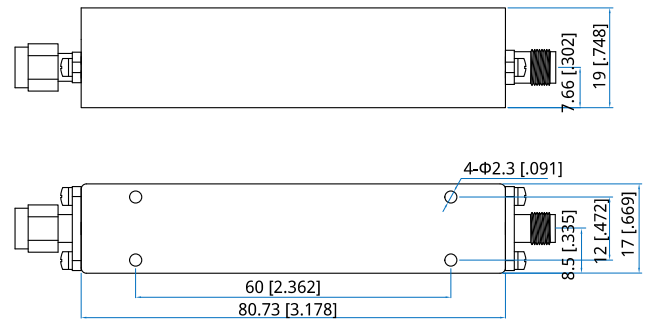
Frequency:	10.2~10.8GHz
Passband Insertion Loss:	1.5dB max.
Stopband Attenuation:	30dB@10GHz min. 30dB@11GHz min.
VSWR:	1.5 max.

Mechanical

Size*1:	80.73*17*19mm 3.178*0.669*0.748in
RF Connectors:	SMA Male, SMA Female
Mounting:	4-Φ2.3mm through-hole

[1] Exclude connectors.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-10200-10800-30

Customization is available upon request.

NBF-10200-12300-90

10.2~12.3GHz, 90dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	10.2~12.3GHz
Passband Insertion Loss:	1dB max.
Passband VSWR:	1.5 max.
Stopband Attenuation:	90dBc@DC~7.5GHz min. 90dBc@15.52~20GHz min.

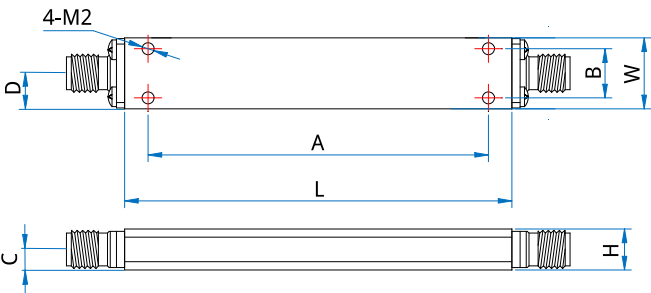
Mechanical

RF Connectors:	SMA Female
Mounting:	4-M2 through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D
mm	54	15	9	45.4	8.5	4.5	8
in	2.126	0.591	0.354	1.787	0.335	0.177	0.315

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

How To Order

NBF-10200-12300-90

Customization is available upon request.

NBF-10425-10575-30 10.425~10.575GHz, 30dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

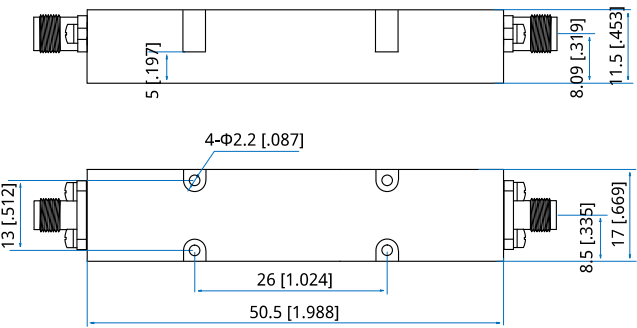
Frequency:	10.425~10.575GHz
Passband Insertion Loss:	1.0dB max.
Stopband Attenuation:	30dB@10.2GHz min. 30dB@10.8GHz min.
VSWR:	1.3 max.

Mechanical

Size*1:	50.5*17*11.5mm 1.988*0.669*0.453in
RF Connectors:	SMA Female
Mounting:	4-Φ2.2mm through-hole

[1] Exclude connectors.

Outline Drawings



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

How To Order **NBF-10425-10575-30**

Customization is available upon request.

NBF-110-170-30

0.11~0.17GHz, 30dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	0.11~0.17GHz
Passband Insertion Loss:	2dB max.
Passband Ripple:	0.7dB max.
VSWR:	1.5 max.
Stopband Attenuation:	30dB@DC~80MHz min. 30dB@200~400MHz min.
Impedance:	50Ω
Average Power:	1W max.

Mechanical

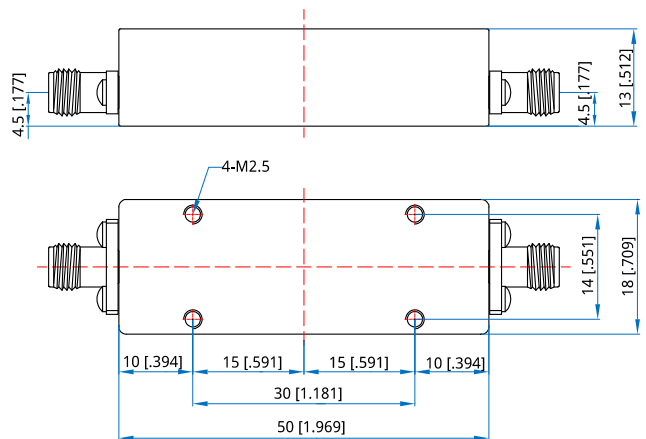
Size*1:	50*18*13mm 1.969*0.709*0.512in
Connectors:	SMA Female
Mounting:	4-M2.5 through hole

[1] Exclude connectors.

Environmental

Temperature:	-30~+70°C
--------------	-----------

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-110-170-30

Customization is available upon request.

NBF-11487-12000-30

11.487~12GHz, 30dBc

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	11.487~12GHz
Passband Insertion Loss:	2dB max.
Passband Ripple:	1dB max.
VSWR:	1.5 max.
Stopband Attenuation :	10dBc@11.0275GHz min. 30dBc@9~10.5864GHz min.

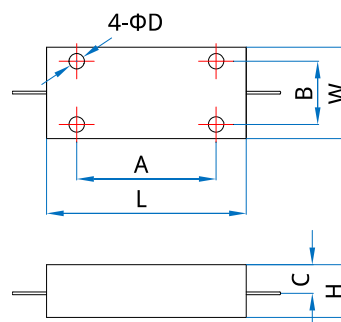
Mechanical

RF Connectors:	SMA Female, removable Φ0.38mm inner pin
Mounting:	4*Φ2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D
mm	25.8	13	7	20.4	9	3.5	2.2
in	1.016	0.512	0.276	0.803	0.354	0.138	0.087

Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-11487-12000-30

Customization is available upon request.

NBF-1390-1410-80

High Stopband Rejection

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	1.39~1.41GHz
Passband Ripple:	1dB max.
Insertion Loss at CF:	2dB max.
VSWR:	1.3dB max.
Stopband Attenuation:	80dB@1.35GHz min. 80dB@1.47GHz min.

Mechanical

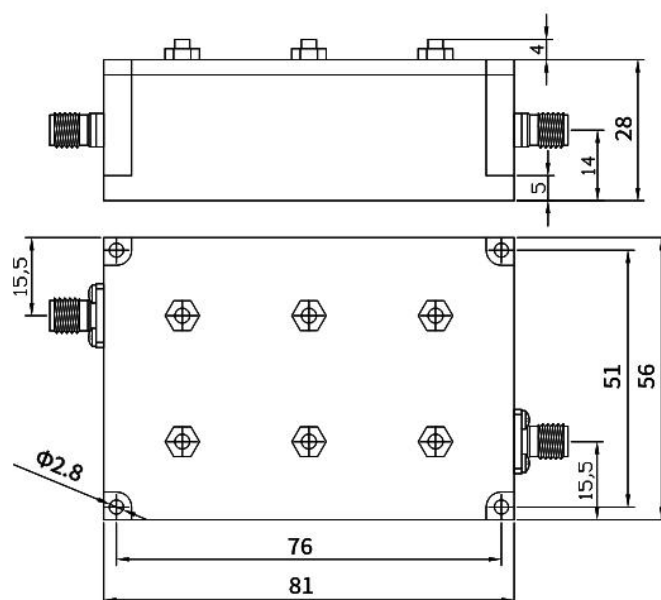
Size*1:	81*56*28mm 3.189*2.205*1.102in
RF Connectors:	SMA Female
Mounting:	4*Φ2.8 Through-hole

[1] Exclude connectors.

Environmental

Working Temperature:	-40~+75°C
Storage Temperature:	-55~+85°C

Outline Drawings



Unit: mm

Tolerance: ±0.2mm

How To Order

NBF-1390-1410-80

Customization is available upon request.

NBF-1400-1800-60

1.4~1.8GHz, 60dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	1.4~1.8GHz
Passband Insertion Loss:	2dB max.
Passband Ripple:	1dB max.
VSWR:	1.5 max.
Stopband Attenuation:	60dB@DC~1.3GHz min. 60dB@1.9~3GHz min.
Impedance:	50Ω
Average Power:	5W max.

Mechanical

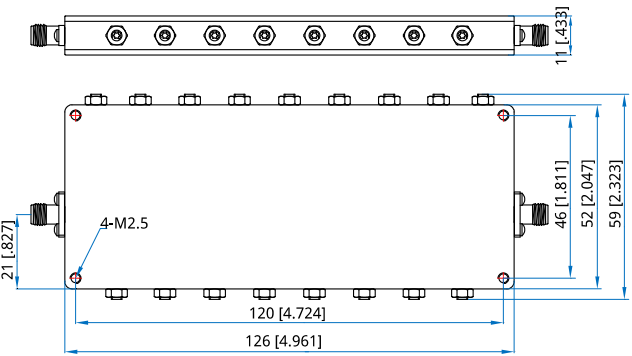
Size*1:	126*59*11mm 4.961*2.323*0.433in
Connectors:	SMA Female
Mounting:	4-M2.5 through-hole

[1] Exclude connectors.

Environmental

Temperature:	-30~+70°C
--------------	-----------

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-1400-1800-60

Customization is available upon request.

NBF-14700-15300-40

High Stopband Rejection

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	14.7~15.3GHz
Passband Insertion Loss:	1.3dB max.
VSWR:	1.5 max.
Stopband Attenuation :	40dBc@DC~14.46GHz min. 40dBc@15.54~18GHz min.

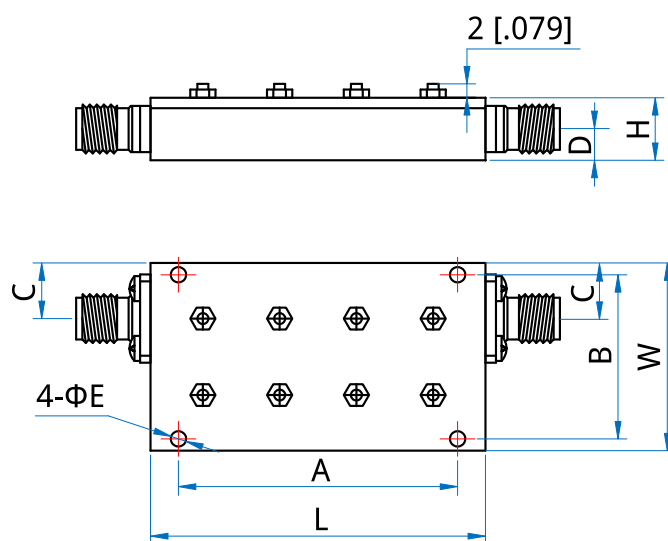
Mechanical

RF Connectors:	SMA Female
Mounting:	4*Φ2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D	E
mm	48	27	9	40	23.6	8	4.5	2.2
in	1.89	1.063	0.354	1.575	0.929	0.315	0.177	0.087

Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-14700-15300-40

Customization is available upon request.

NBF-15000-16000-40

High Stopband Rejection

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	15~16GHz
Passband Insertion Loss:	2dB max.
VSWR:	1.5 max.
Stopband Attenuation :	40dBc@DC~14.5GHz min.
	40dBc@16.5~18GHz min.

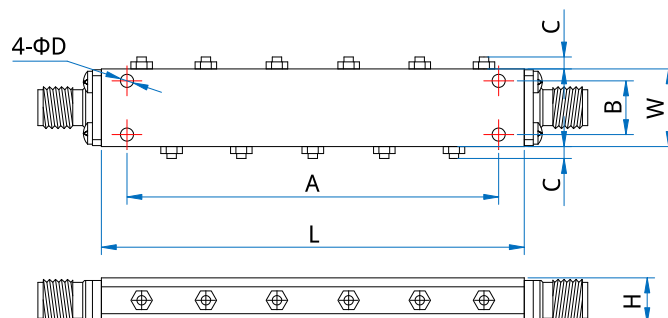
Mechanical

RF Connectors:	SMA Female
Mounting:	4* Φ 2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D
mm	71	13	7.5	62.4	9	2	2.2
in	2.795	0.512	0.295	2.457	0.354	0.079	0.087

Unit: mm [in]

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

How To Order

NBF-15000-16000-40

Customization is available upon request.

NBF-1500-1600-45

1.5~1.6GHz, 45dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Frequency:	1.5~1.6GHz
-1dB Passband Width:	100MHz min.
Passband Insertion Loss:	3dB max.
Stopband Attenuation:	45dB@1.35GHz min. 45dB@1.75GHz min.
VSWR:	1.5 max.

Mechanical

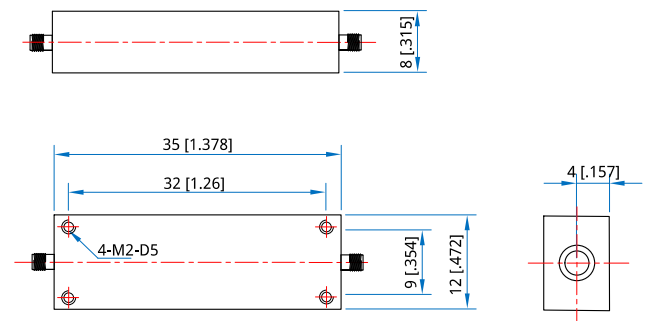
Size*1:	35*12*8mm 1.378*0.472*0.315in
RF Connectors:	SMA female
Mounting:	4-M2 depth 5mm

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Unit: mm [in]

Tolerance: ± 0.2 mm [± 0.008 in]

How To Order

NBF-1500-1600-45

Customization is available upon request.

NBF-1518-1553-40

1.518~1.553GHz, 40dBc

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Frequency:	1.518~1.553GHz
Passband Width:	35MHz
Passband Insertion Loss:	3dB max.
Passband Ripple:	0.2dB max.
Stopband Attenuation:	40dBc@100MHz min. 40dBc@535.5MHz min. 40dBc@2535.5MHz min.
VSWR:	1.5 max.

Mechanical

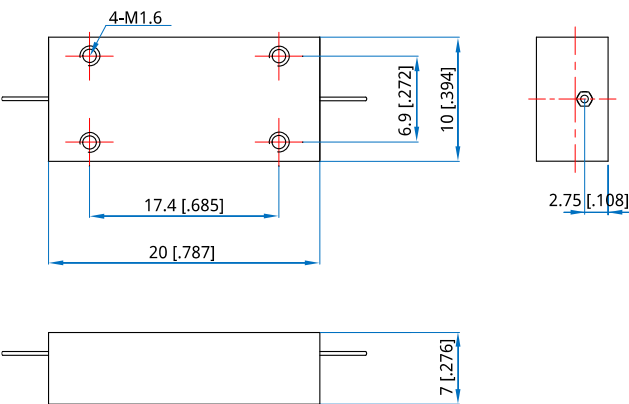
Size*1:	20*10*7mm 0.787*0.394*0.276in
RF Connectors:	Φ0.5mm PIN
Mounting:	4-M1.6 through-hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+85°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



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

How To Order

NBF-1518-1553-40

Customization is available upon request.

NBF-15900-16500-40

High Stopband Rejection

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	15.9~16.5GHz
Passband Insertion Loss:	1.3dB max.
VSWR:	1.5 max.
Stopband Attenuation :	40dBc@DC~15.66GHz min. 40dBc@16.74~18GHz min.

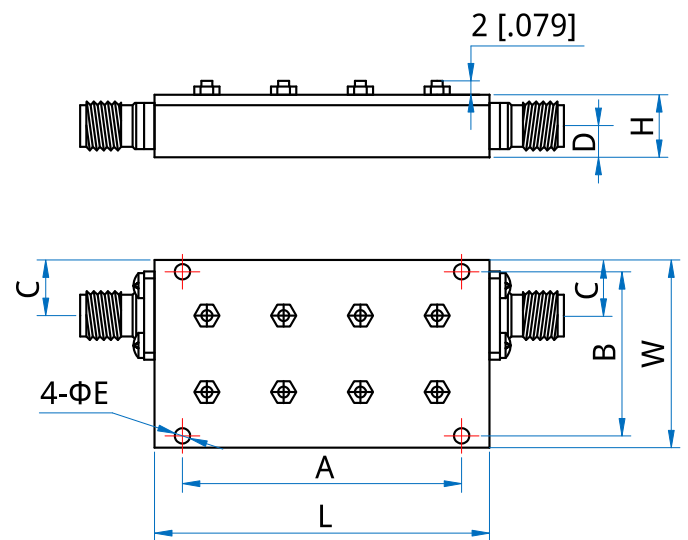
Mechanical

RF Connectors:	SMA Female
Mounting:	4*Φ2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D	E
mm	48	27	9	40	23.6	8	4.5	2.2
in	1.89	1.063	0.354	1.575	0.929	0.315	0.177	0.087

Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-15900-16500-40

Customization is available upon request.

NBF-16000-16200-40

High Stopband Rejection

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	16~16.2GHz
Passband Insertion Loss:	1.5dB max.
VSWR:	1.5 max.
Stopband Attenuation :	40dBc@DC~15.76GHz min. 40dBc@16.44~18GHz min.

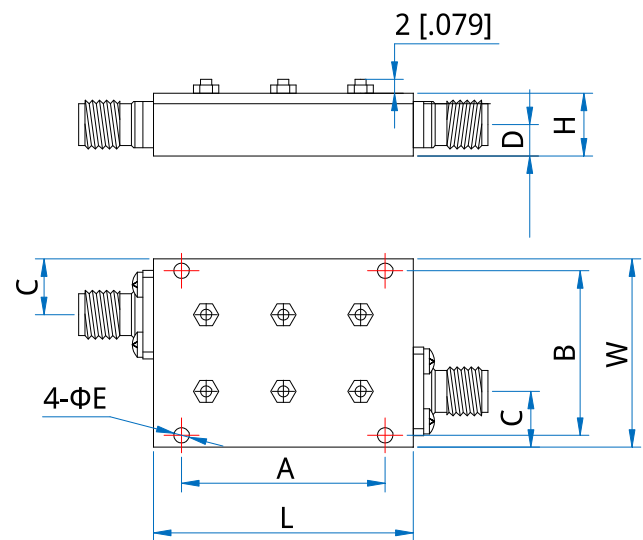
Mechanical

RF Connectors:	SMA Female
Mounting:	4* Φ 2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D	E
mm	37	27	9	29	23.6	8	4.5	2.2
in	1.457	1.063	0.354	1.142	0.929	0.315	0.177	0.087

Unit: mm [in]

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

How To Order

NBF-16000-16200-40

Customization is available upon request.

NBF-16384-24576-20

16384~24576MHz, 20dBc

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	16384~24576MHz
Passband Insertion Loss:	3dB max.
VSWR:	1.8 max.
Stopband Attenuation:	10dBc@15.8GHz min.
	10dBc@25.2GHz min.
	20dBc@15GHz min.
	20dBc@26GHz min.

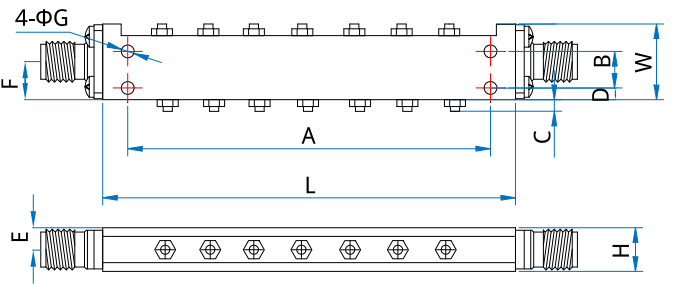
Mechanical

RF Connectors:	SMA Female
Mounting:	4-Φ2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D	E	F	G
mm	54	13	7.7	44.6	7.6	2	1.7	3.85	6.5	2.2
in	2.12	0.51	0.30	1.75	0.29	0.07	0.06	0.15	0.25	0.08
	6	2	3	6	9	9	7	2	6	7

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

How To Order

NBF-16384-24576-20

Customization is available upon request.

NBF-1640-1675-40

1.64~1.675GHz, 40dBc

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Frequency:	1.64~1.675GHz
Passband Width:	35MHz
Passband Insertion Loss:	3dB max.
Passband Ripple:	0.2dB max.
Stopband Attenuation:	40dBc@100MHz min. 40dBc@657.5MHz min. 40dBc@2657.5MHz min.
VSWR:	1.5 max.

Mechanical

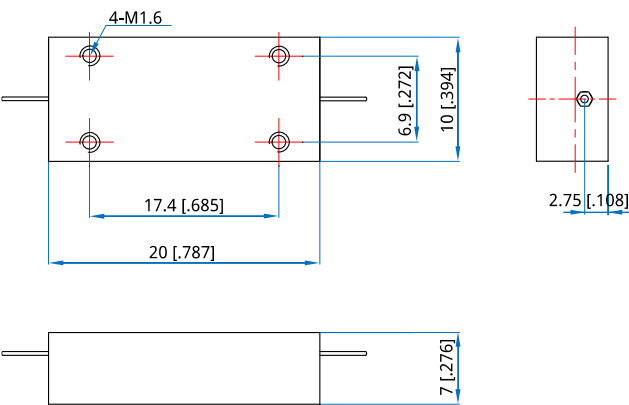
Size*1:	20*10*7mm 0.787*0.394*0.276in
RF Connectors:	Φ0.5mm PIN
Mounting:	4-M1.6 through-hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+85°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



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

How To Order

NBF-1640-1675-40

Customization is available upon request.

NBF-18000-20000-30

18~20GHz, 30dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	18~20GHz
Passband Insertion Loss:	2dB max.
VSWR:	1.5 max.
Stopband Attenuation:	30dB@DC~17.2GHz min. 30dB@20.8~30GHz min.

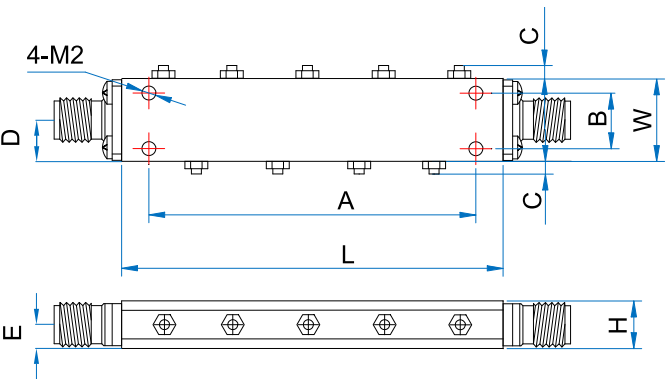
Mechanical

RF Connectors:	2.92 Female
Mounting:	4-M2 through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size:	L	W	H	A	B	C	D	E
mm:	51	13	7.5	43	9.2	2	6.5	3.75
in:	2.008	0.512	0.295	1.693	0.362	0.079	0.256	0.148

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

How To Order

NBF-18000-20000-30

Customization is available upon request.

NBF-18000-23000-50

High Stopband Rejection

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	18~23GHz
Passband Insertion Loss:	1dB max.
Passband VSWR:	1.6 max.
Stopband Attenuation:	50dBc@17GHz min. 50dBc@25GHz min.

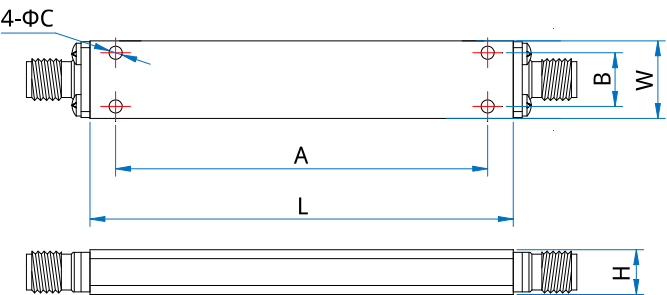
Mechanical

RF Connectors:	SMA Female
Mounting:	4*Φ2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C
mm	50.8	13	7	44.8	9	2.2
in	2	0.512	0.276	1.764	0.354	0.087

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

How To Order

NBF-18000-23000-50

Customization is available upon request.

NBF-18000-25000-80

18~25GHz, 80dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	18~25GHz
Passband Insertion Loss:	1.5dB max.
Passband VSWR:	1.8 max.
Stopband Attenuation:	80dBc@DC~14GHz min. 80dBc@29~35GHz min.

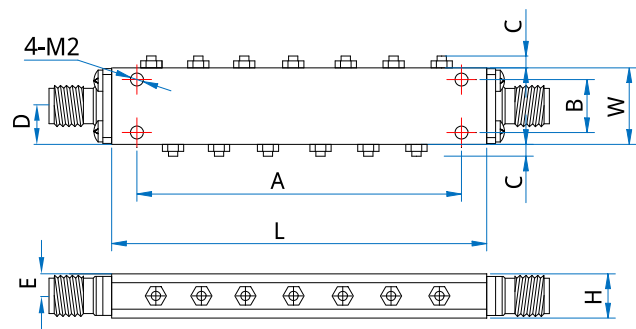
Mechanical

RF Connectors:	2.92mm Female
Mounting:	4-M2 through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D	E
mm	48	13	7	40	9	2	6.5	3.5
in	1.89	0.512	0.276	1.575	0.354	0.079	0.256	0.138

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

How To Order

NBF-18000-25000-80

Customization is available upon request.

NBF-18000-26500-60

18GHz~26.5GHz

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	18~26.5GHz
Passband Insertion Loss:	2dB max.
VSWR:	1.8 max.
Stopband Attenuation :	60dBc@DC~15GHz min.
	60dBc@29.5~37GHz min.

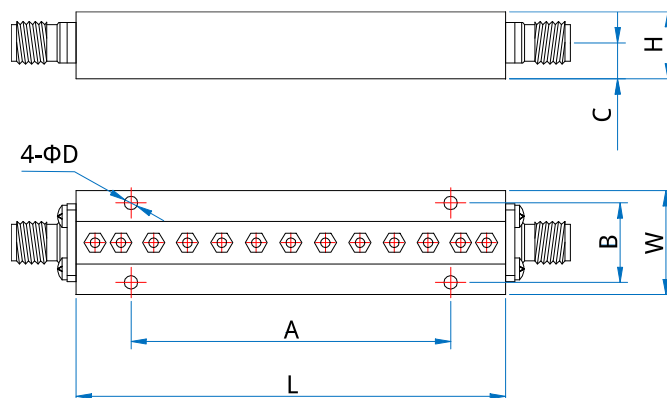
Mechanical

RF Connectors:	2.92mm Female
Mounting:	4* Φ 2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D
mm	59.5	16	11	41.5	11	6.3	2.2
in	2.343	0.630	0.433	1.634	0.433	0.248	0.087

Unit: mm [in]

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

How To Order

NBF-18000-26500-60

Customization is available upon request.

NBF-1800-2200-45

1.8~2.2GHz, 45dBc

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Frequency:	1.8~2.2GHz
1dB Bandwidth:	400MHz min.
Passband Insertion Loss:	1.2dB max.
Stopband Attenuation:	45dBc@1550MHz min. 45dBc@2450MHz min.
VSWR:	1.5 max.
Average Power:	40W

Mechanical

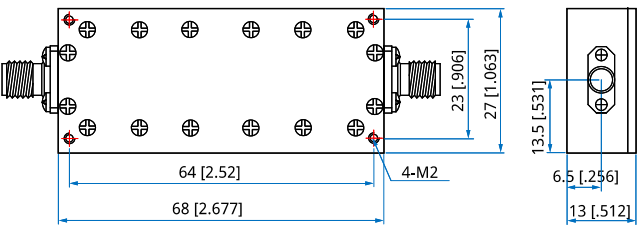
Size*1:	68*27*13mm 2.677*1.063*0.512in
RF Connectors:	SMA Female
Mounting:	4-M2 through-hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



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

How To Order

NBF-1800-2200-45

Customization is available upon request.

NBF-1980-2010-80

1.98~2.01GHz, 80dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Frequency:	1.98~2.01GHz
Passband Width:	30MHz
Passband Insertion Loss:	1.5dB max.
Stopband Attenuation:	80dB@DC~1.82GHz min. 80dB@2.17~2.2GHz min.
VSWR:	1.5 max.
Average Power:	60W

Mechanical

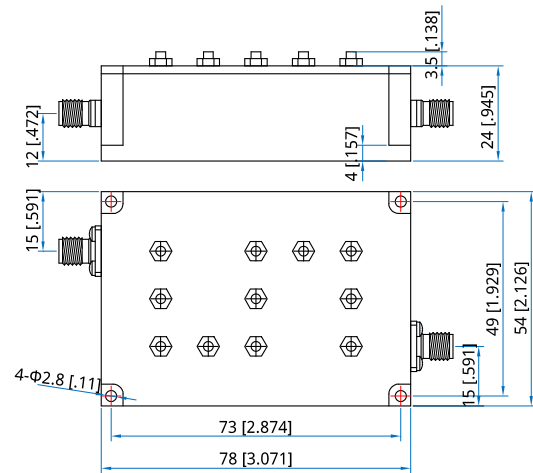
Size* ¹ :	78*54*24mm 3.071*2.126*0.945in
RF Connectors:	SMA Female
Mounting:	4-Φ2.8mm through-hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-1980-2010-80

Customization is available upon request.

NBF-2000-4000-60

2~4GHz, 60dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation



Electrical

Passband:	2~4GHz
Passband Insertion Loss:	1dB max.
Passband VSWR:	1.6 max.
Stopband Attenuation:	60dBc@1.5GHz min. 60dBc@4.5GHz min.

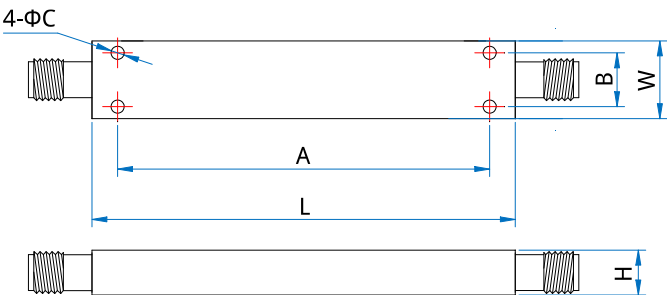
Mechanical

RF Connectors:	SMA Female
Mounting:	4*Φ2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C
mm	51	11	10	48	8	2
in	2.008	0.433	0.394	1.89	0.315	0.079

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

How To Order

NBF-2000-4000-60

Customization is available upon request.

NBF-2025-2085-40

2025~2085MHz, 40dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	2025~2085MHz
Insertion Loss:	1dB max.
VSWR:	1.3 max.
Stopband Attenuation:	40dBc@2200~2300MHz min.

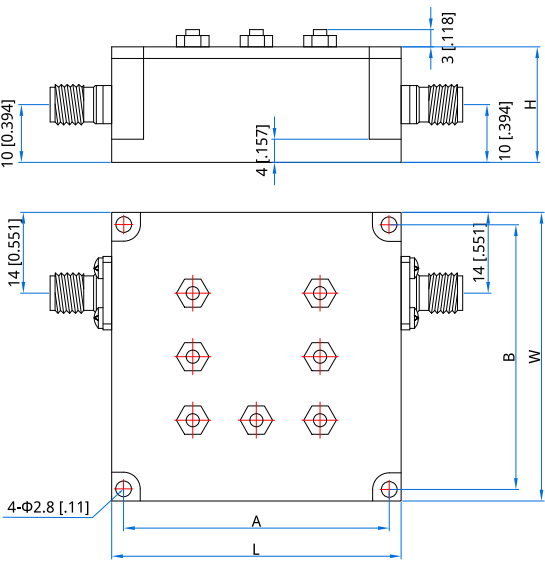
Mechanical

RF Connectors:	SMA Female
Mounting:	4-Φ2.8mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B
mm	50	50	20	45	45
in	1.969	1.969	0.787	1.772	1.772

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

How To Order

NBF-2025-2085-40

Customization is available upon request.

NBF-2025-2120-50

High Stopband Rejection

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	2.025~2.12GHz
Passband Ripple:	1dB max.
Insertion Loss at CF:	2dB max.
VSWR:	1.3dB max.
Stopband Attenuation:	50dB@1.95GHz min. 50dB@2.2~2.3GHz min.

Mechanical

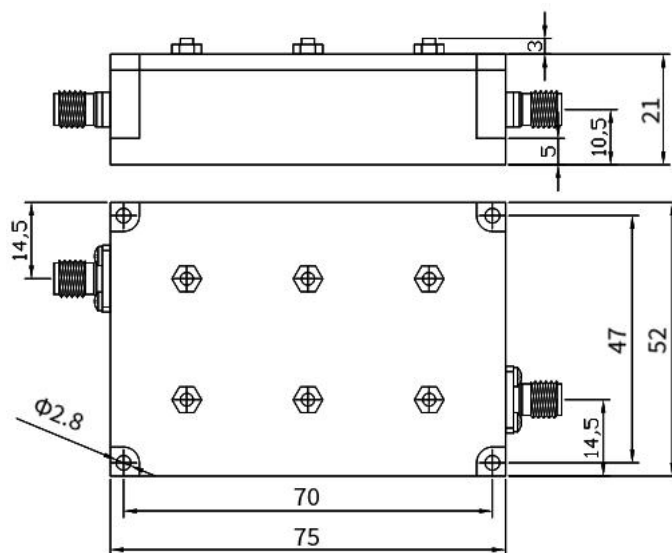
Size*1:	75*52*21mm 2.953*2.047*0.827in
RF Connectors:	SMA Female
Mounting:	4* Φ 2.8 Through-hole

[1] Exclude connectors.

Environmental

Working Temperature:	-40~+75°C
Storage Temperature:	-55~+85°C

Outline Drawings



Unit: mm

Tolerance: ± 0.2 mm

How To Order

NBF-2025-2120-50

Customization is available upon request.

NBF-20600-25000-60

20.6~25GHz, 60dBc

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Frequency:	20.6~25GHz
Passband Insertion Loss:	2dB max.
VSWR:	1.8 max.
Stopband Attenuation:	60dBc@18.8GHz min. 60dBc@26.8GHz min.

Mechanical

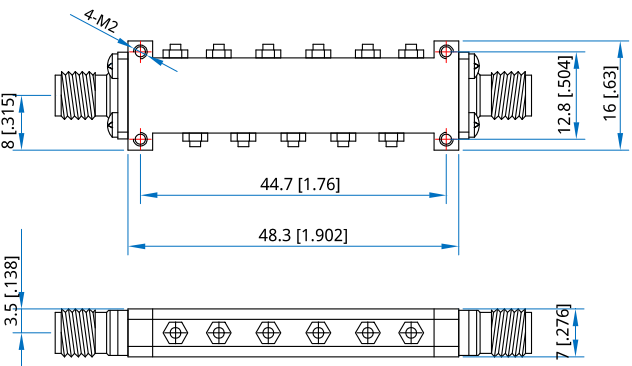
Size*1:	48.3*16*7mm 1.902*0.63*0.276in
RF Connectors:	2.92mm Female
Mounting:	4-M2 through-hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-20600-25000-60

Customization is available upon request.

NBF-21000-28000-50
21~28GHz, 50dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	21~28GHz
Passband Insertion Loss:	1dB max.
VSWR:	1.6 max.
Stopband Attenuation :	65dB@DC~19GHz min. 50dB@30~35GHz min.

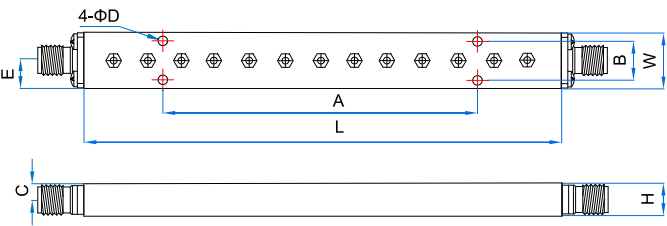
Mechanical

RF Connectors:	2.92mm Female
Mounting:	4-Φ2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D	E
mm	65.5	16	11	47.5	11	6.2	2.2	8
in	2.579	0.63	0.354	1.87	0.433	0.244	0.087	0.315

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

How To Order
NBF-21000-28000-50

Customization is available upon request.

NBF-21500-22500-70

21.5~22.5GHz, 70dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	21.5~22.5GHz
3dB Bandwidth:	1.25GHz max.
1dB Passband Bandwidth:	1GHz
Passband Insertion Loss:	2dB max.
Passband Ripple:	1dB max.
VSWR:	1.3 max.
Stopband Attenuation:	70dB@DC~20.9GHz min. 70dB@23.1~40GHz min.
Impedance:	50Ω
Average Power:	5W max.

Mechanical

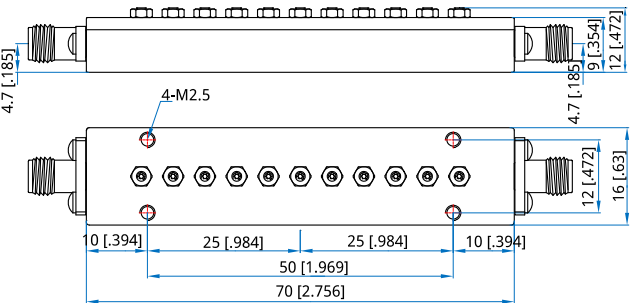
Size*1:	70*16*9mm 2.756*0.63*0.354in
Connectors:	SMA Female
Mounting:	4-M2.5 through hole

[1] Exclude connectors.

Environmental

Temperature:	-30~+70°C
--------------	-----------

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-21500-22500-70

Customization is available upon request.

NBF-2240-2280-30
2240~2280MHz, 30dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	2240~2280MHz
Insertion Loss:	1.1dB max.
Passband Ripple:	0.8dB max.
VSWR:	1.25 max.
Stopband Attenuation:	30dB@2220~2300MHz min.

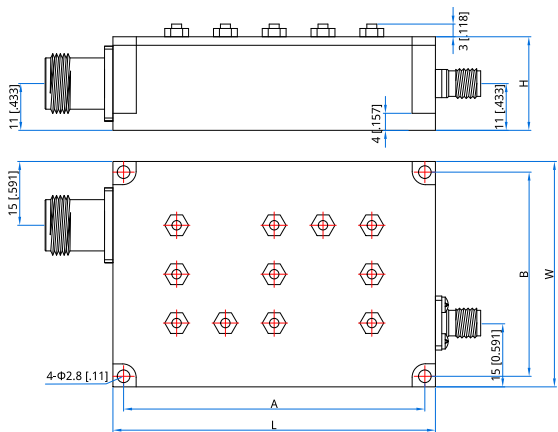
Mechanical

RF Connectors:	N Female, SMA Female
Mounting:	4-Φ2.8mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B
mm	76	53	22	71	48
in	2.992	2.087	0.866	2.795	1.89

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

How To Order

NBF-2240-2280-30

Customization is available upon request.

NBF-23000-26500-60

23~26.5GHz, 60dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	23~26.5GHz
Passband Insertion Loss:	1.5dB max.
Passband VSWR:	1.8 max.
Stopband Attenuation:	60dBc@DC~21.3GHz min. 60dBc@28.5~40GHz min.

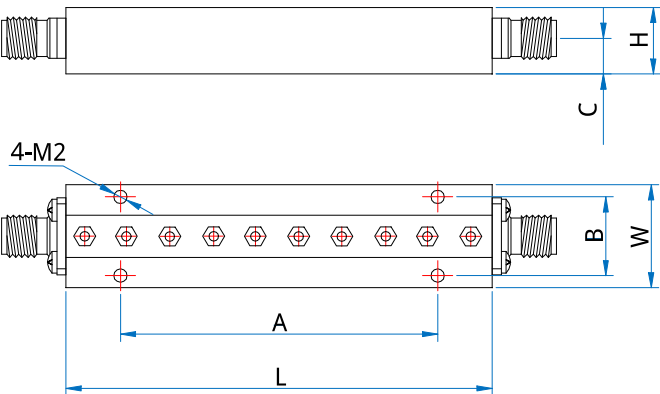
Mechanical

RF Connectors:	2.92mm Female
Mounting:	4-M2 through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C
mm	51.2	16	10.5	34.2	12	5.6
in	2.016	0.63	0.413	1.346	0.472	0.22

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

How To Order

NBF-23000-26500-60

Customization is available upon request.

NBF-23000-30000-85

23GHz~30GHz, 85dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation



Electrical

Passband:	23~30GHz
Passband Insertion Loss:	1.5dB max.
VSWR:	1.5 max.
Stopband Attenuation:	85dBc@19GHz min. 85dBc@34GHz min.

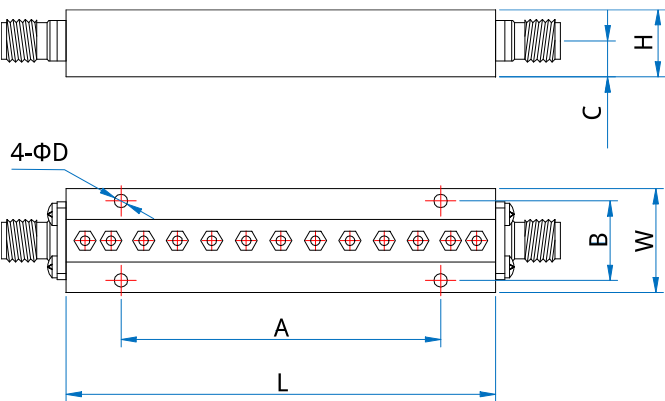
Mechanical

RF Connectors:	2.92mm Female
Mounting:	4*Φ2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D
mm	50	17	10	31	13	5.1	2.2
in	1.969	0.669	0.394	1.220	0.512	0.201	0.087

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

How To Order

NBF-23000-30000-85

Customization is available upon request.

NBF-2300-2500-45

2.3~2.5GHz, 45dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Frequency:	2.3~2.5GHz
-1dB Passband Width:	200MHz min.
Passband Insertion Loss:	3dB max.
Stopband Attenuation:	45dB@2.05GHz min. 45dB@2.75GHz min.
VSWR:	1.5 max.

Mechanical

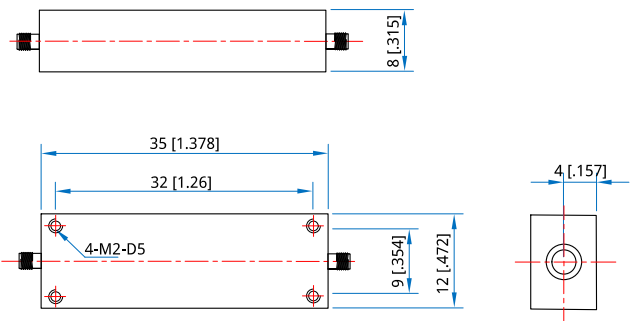
Size*1:	35*12*8mm 1.378*0.472*0.315in
RF Connectors:	SMA female
Mounting:	4-M2 depth 5mm

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-2300-2500-45

Customization is available upon request.

NBF-24000-26000-35

24~26GHz, 35dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	24~26GHz
Passband Insertion Loss:	2dB max.
Passband VSWR:	1.5 max.
Stopband Attenuation:	35dBc@DC~23GHz min. 35dBc@27~40GHz min.

Mechanical

Connectors:	2.92mm Female
Mounting:	4-M2 through-hole

Environmental

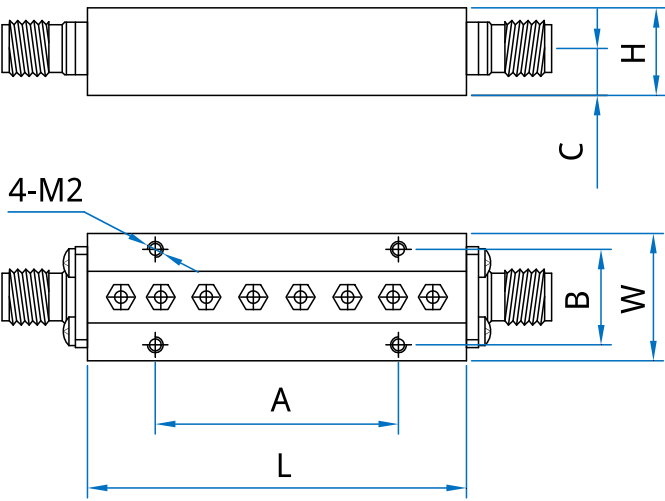
Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

How To Order

NBF-24000-26000-35

Customization is available upon request.

Outline Drawings



Size	L	W	H	A	B	C
mm	45.5	16	11	28.5	12	5.9
in	1.791	0.63	0.433	1.122	0.472	0.232

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

NBF-24000-27800-60

24GHz~27.8GHz, 60dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	24~27.8GHz
Passband Insertion Loss:	2dB max.
Passband Ripple:	0.5dB max.
VSWR:	1.5 max.
Stopband Attenuation :	60dBc@DC~22.4GHz min. 60dBc@30~40GHz min.
Average Power:	0.5W min.

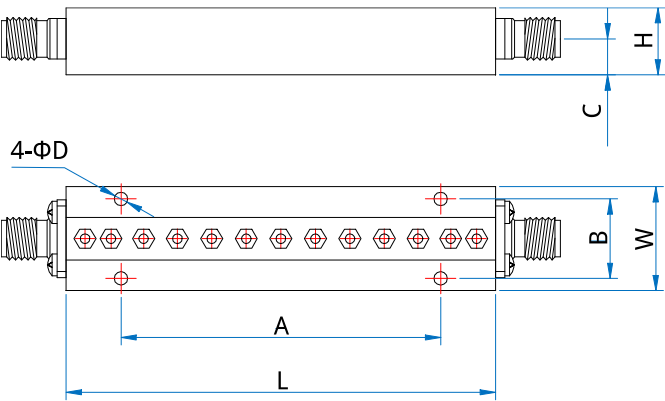
Mechanical

RF Connectors:	2.92mm Female, removable Φ0.38mm inner pin
Mounting:	4*Φ2.2mm through-hole

Environmental

Operating Temperature:	0~+55°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D
mm	67.1	17	11	47.1	13	6	2.2
in	2.642	0.669	0.433	1.854	0.512	0.236	0.087

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

How To Order

NBF-24000-27800-60

Customization is available upon request.

NBF-24000-29500-10

24~29.5GHz, 10dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	24~29.5GHz
Passband Insertion Loss:	2dB max.
VSWR:	1.5 max.
Average Power:	30W typ.
Stopband Attenuation :	10dBc@23GHz min.
	10dBc@30.5GHz min.

Mechanical

RF Connectors:	2.92mm Female
Mounting:	4-M2 through-hole

Environmental

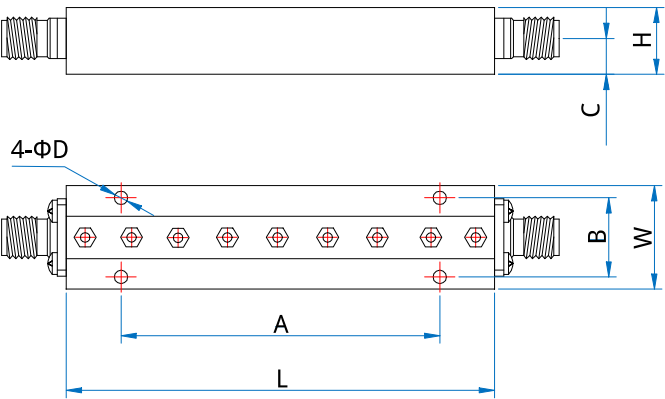
Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

How To Order

NBF-24000-29500-10

Customization is available upon request.

Outline Drawings



Size:	L	W	H	A	B	C	D
mm:	49.7	16	11	31.7	12	6	2
in:	1.957	0.63	0.433	1.248	0.472	0.236	0.079

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

NBF-24000-33000-60

24GHz~33GHz

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	24~33GHz
Passband Insertion Loss:	2dB max.
VSWR:	1.8 max.
Stopband Attenuation :	60dBc@DC~21GHz min.
	60dBc@37~40GHz min.

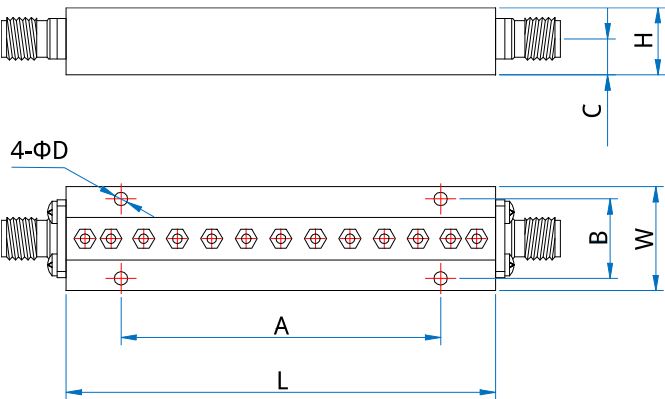
Mechanical

RF Connectors:	2.92mm Female
Mounting:	4*Φ2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D
mm	51.5	16	11	33.5	11	6.2	2.2
in	2.028	0.630	0.433	1.319	0.433	0.244	0.087

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

How To Order

NBF-24000-33000-60

Customization is available upon request.

NBF-24000-34000-40

24~34GHz, 40dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	24~34GHz
Passband Insertion Loss:	1.5dB max.
VSWR:	1.8 max.
Stopband Attenuation:	40dB@DC~20GHz min. 40dB@37~55GHz min.
Average Power:	30W

Mechanical

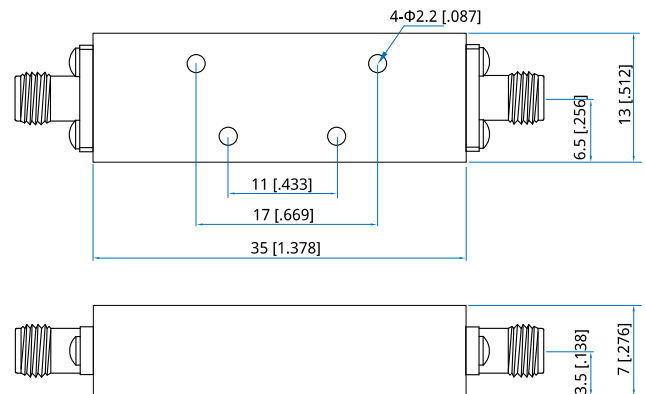
Size*1:	35*13*7mm 1.378*0.512*0.276in
Connectors:	2.92mm Female
Mounting:	4-Φ2.2mm through hole

[1] Exclude connectors.

Environmental

Temperature:	-18~+40°C
--------------	-----------

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-24000-40000-40

Customization is available upon request.

NBF-2400-2500-35

2.4~2.5GHz, 35dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	2.4~2.5GHz
Insertion Loss:	1.5dB max.
VSWR:	1.5 max.
Stopband Attenuation:	35dB @DC~2.2GHz min. 35dB @2.7~5GHz min.

Mechanical

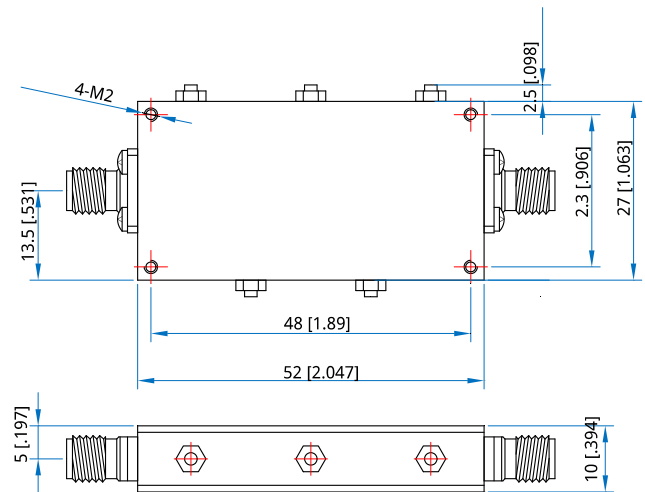
Size ^{*1} :	52*27*10mm 2.047*1.063*0.394in
Connectors:	SMA Female
Mounting:	4-M2 through-hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-2400-2500-35

Customization is available upon request.

NBF-2400-2500-50

2.4~2.5GHz, 50dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	2.4~2.5GHz
Passband Insertion Loss:	1dB max.
VSWR:	1.3 max.
Stopband Attenuation:	50dB@DC~2.05GHz min. 50dB@2.85~5GHz min.
Impedance:	50Ω
Average Power:	5W max.

Mechanical

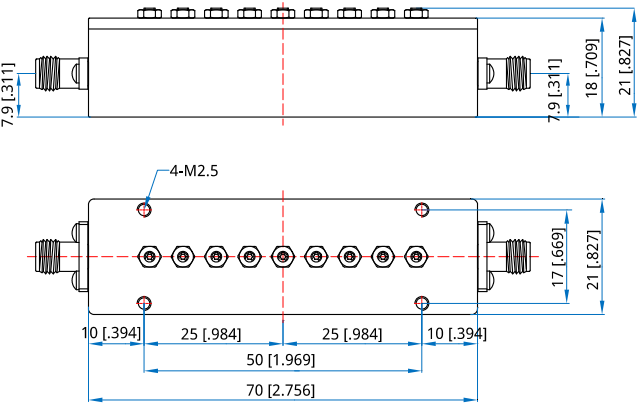
Size*1:	70*21*21mm 2.756*0.827*0.827in
Connectors:	SMA Female
Mounting:	4-M2.5 through hole

[1] Exclude connectors.

Environmental

Temperature:	-30~+70°C
--------------	-----------

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-2400-2500-50

Customization is available upon request.

NBF-245-355-25

0.245~0.355GHz, 25dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	0.245~0.355GHz
Passband Insertion Loss:	2dB max.
Passband Ripple:	1dB max.
VSWR:	1.5 max.
Stopband Attenuation:	38dB@DC~200MHz min. 25dB@400~900MHz min.
Impedance:	50Ω
Average Power:	1W max.

Mechanical

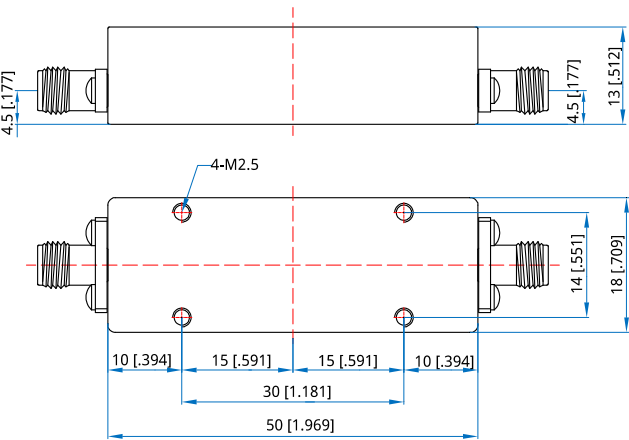
Size*1:	50*18*13mm 1.969*0.709*0.512in
Connectors:	SMA Female
Mounting:	4-M2.5 through hole

[1] Exclude connectors.

Environmental

Temperature:	-30~+70°C
--------------	-----------

Outline Drawings



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

How To Order

NBF-245-355-25

Customization is available upon request.

NBF-24750-27750-66

High Stopband Rejection

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Center Frequency:	26.25GHz
1dB Band Width:	1.5GHz min.
Return Loss:	16dB min.
Insertion Loss:	1dB max.
Stopband Attenuation:	70dBc@23.83GHz min. 66dBc@28.67GHz min.
Group Delay Variation:	1ns max.

Mechanical

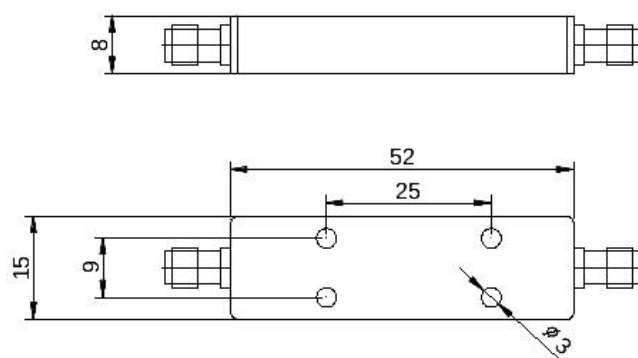
Size ^{*1} :	52*15*8mm 2.047*0.591*0.315in
RF Connectors:	2.92mm Female
Mounting:	4*Φ3mm Through Hole

[1] Exclude connectors.

Environmental

Working Temperature:	0~+50°C
----------------------	---------

Outline Drawings



Unit: mm

Tolerance: ±0.2mm

How To Order

NBF-24750-27750-66

Customization is available upon request.

NBF-2526.5-2579.5-40
2.5265~2.5795GHz, 40dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	2.5265~2.5795GHz
Passband Insertion Loss:	1.0dB max.
Passband Ripple:	±0.4dB max.
VSWR:	1.5 max.
Stopband Rejection:	40dB@2.3GHz min. 40dB@2.7GHz min.
Input Power:	10W max.
Impedance:	50Ω

Mechanical

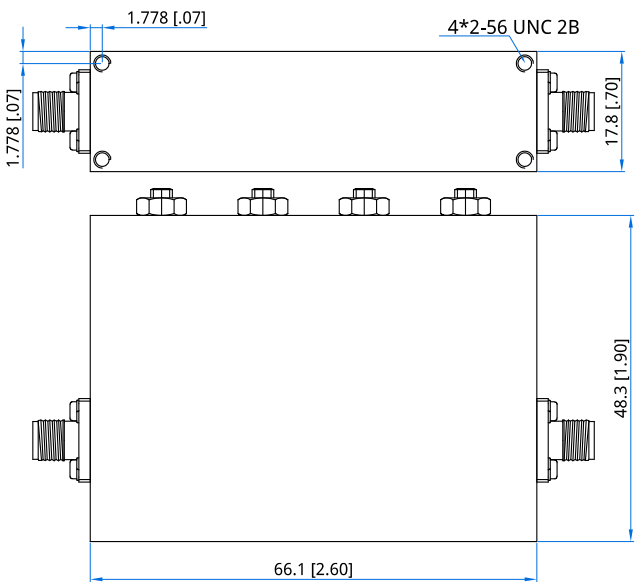
Size*1:	66.1*48.3*17.8mm 2.60*1.90*0.70in
Connectors:	SMA Female
Mounting:	4*2-56 UNC 2B

[1] Exclude connectors.

Environmental

Operating Temperature:	-45~+85°C
------------------------	-----------

Outline Drawings



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

How To Order
NBF-2526.5-2579.5-40

Customization is available upon request.

NBF-25500-29500-60

25.5~29.5GHz, 60dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	25.5~29.5GHz
Passband Insertion Loss:	1.5dB max.
Passband VSWR:	1.8 max.
Stopband Attenuation:	60dBc@DC~23.5GHz min. 60dBc@31.5~40GHz min.

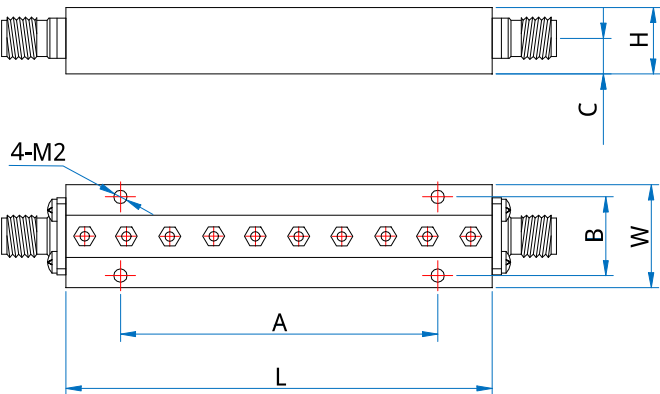
Mechanical

RF Connectors:	2.92mm Female
Mounting:	4-M2 through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C
mm	50.4	16	10.5	33.4	12	5.6
in	1.984	0.63	0.413	1.315	0.472	0.22

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

How To Order

NBF-25500-29500-60

Customization is available upon request.

NBF-2573.5-2626.5-40

2.5735~2.6265GHz, 40dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	2.5735~2.6265GHz
Passband Insertion Loss:	0.8dB max.
Passband Ripple:	±0.4dB max.
VSWR:	1.3 max.
Stopband Attenuation:	40dB@2.5435GHz min. 40dB@2.6565GHz min.
Power:	10W

Mechanical

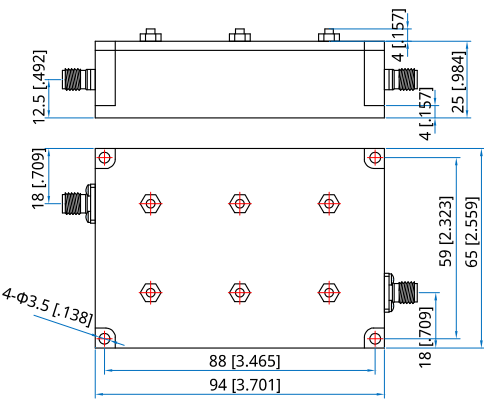
Size*1:	94*65*25mm 3.701*2.559*0.984in
Connectors:	SMA Female
Mounting:	4-Φ3.5mm through hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



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

How To Order

NBF-2573.5-2626.5-40

Customization is available upon request.

NBF-26000-27000-60

26~27GHz, 60dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	26~27GHz
Passband Insertion Loss:	1dB max.
VSWR:	1.6 max.
Stopband Attenuation :	60dB@25GHz min.
	60dB@28GHz min.
Average Power:	50W

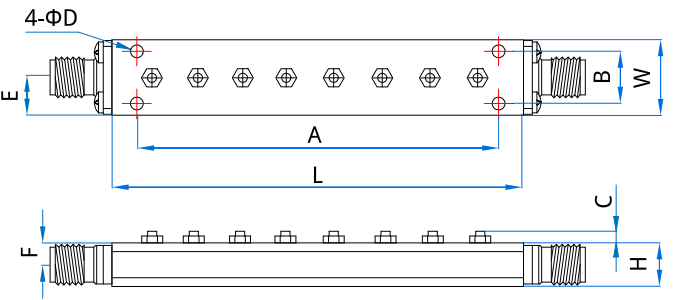
Mechanical

RF Connectors:	2.92mm Female
Mounting:	4-Φ2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D	E	F
mm	66.5	16	10	50.5	12	2	2.2	8	5.5
in	2.618	0.63	0.394	1.988	0.472	0.079	0.087	0.315	0.217

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

How To Order

NBF-26000-27000-60

Customization is available upon request.

NBF-26000-28000-60

26~28GHz, 60dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	26~28GHz
Passband Insertion Loss:	2dB max.
Passband VSWR:	1.5 max.
Stopband Attenuation:	60dBc@DC~23GHz min. 60dBc@31~40GHz min.

Mechanical

Connectors:	2.92mm Female
Mounting:	4-M2 through-hole

Environmental

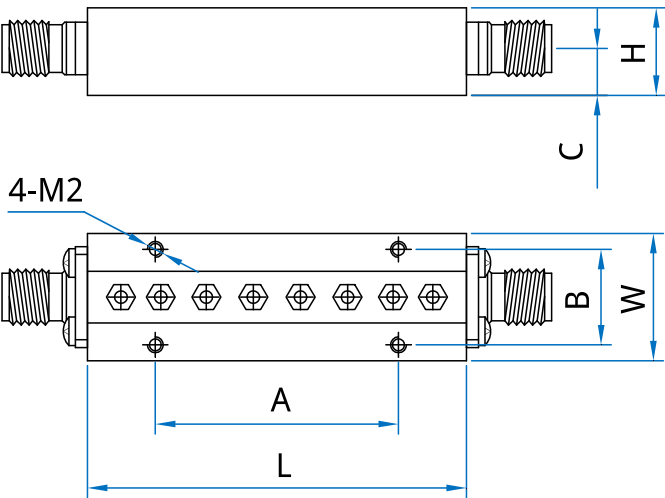
Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

How To Order

NBF-26000-28000-60

Customization is available upon request.

Outline Drawings



Size	L	W	H	A	B	C
mm	47.4	16	11	30.4	12	5.9
in	1.866	0.63	0.433	1.197	0.472	0.232

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

NBF-2613.5-2666.5-40

2.6135~2.6665GHz, 40dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	2.6135~2.6665GHz
Passband Insertion Loss:	0.8dB max.
Passband Ripple:	±0.4dB max.
VSWR:	1.3 max.
Stopband Rejection:	40dB@2.5835GHz min. 40dB@2.6965GHz min.
Power:	10W

Mechanical

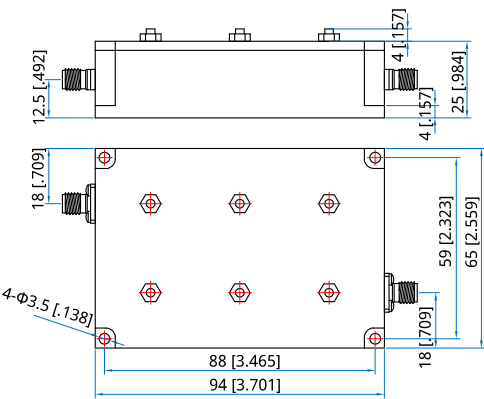
Size*1:	94*65*25mm 3.701*2.559*0.984in
Connectors:	SMA Female
Mounting:	4-Φ3.5mm through hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



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

How To Order

NBF-2613.5-2666.5-40

Customization is available upon request.

NBF-26300-26900-40

26.3~26.9GHz, 40dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Frequency:	26.3~26.9GHz
Insertion Loss:	0.6dB max.
Passband Ripple:	1dB max.
VSWR:	1.5 max.
Stopband Attenuation:	60dB@≤24GHz min. 40dB@≥30GHz min.

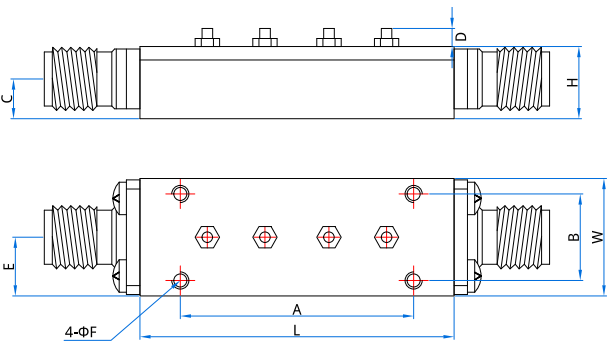
Mechanical

RF Connectors:	2.92mm Female
Mounting:	4-M2 through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D	E
mm	35	13	8	26	9.6	4.4	2	6.5
in	1.378	0.512	0.315	1.024	0.378	0.173	0.079	0.256

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

How To Order

NBF-26300-26900-40

Customization is available upon request.

NBF-26300-29700-60

26.3GHz~29.7GHz, 60dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	26.3~29.7GHz
Passband Insertion Loss:	2dB max.
Passband Ripple:	0.5dB max.
VSWR:	1.5 max.
Stopband Attenuation :	60dBc@DC~24.8GHz min. 60dBc@32~40GHz min.
Average Power:	0.5W min.

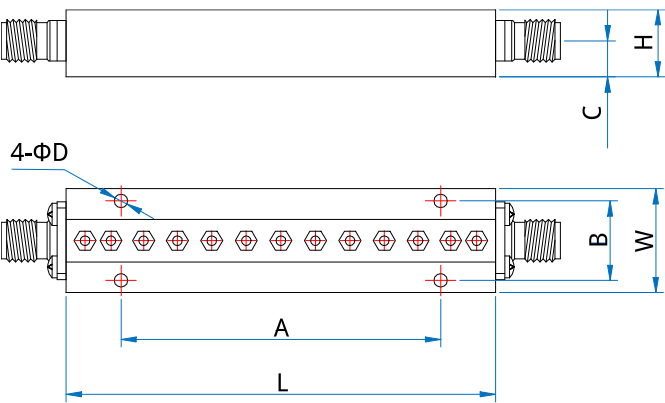
Mechanical

RF Connectors:	2.92mm Female, removable Φ0.38mm inner pin
Mounting:	4*Φ2.2mm through-hole

Environmental

Operating Temperature:	0~+55°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D
mm	71.5	17	11	51.5	13	6.1	2.2
in	2.815	0.669	0.433	2.028	0.512	0.24	0.087

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

How To Order

NBF-26300-29700-60

Customization is available upon request.

NBF-26400-33000-60

26.4~33GHz, 60dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	26.4~33GHz
Passband Insertion Loss:	2dB max.
VSWR:	1.8 max.
Stopband Attenuation:	60dB@DC~24GHz min. 60dB@37~40GHz min.
Average Power:	30W max.

Mechanical

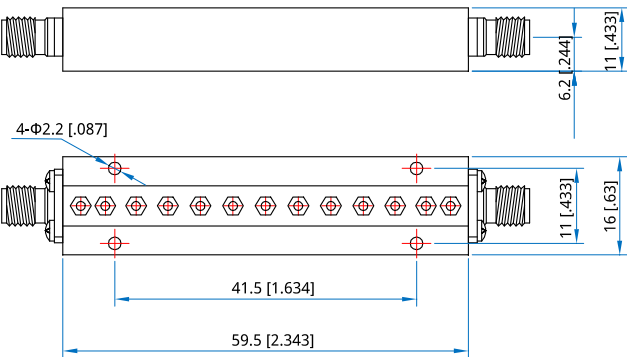
Size*1:	59.5*16*11mm 2.343*0.63*0.433in
Connectors:	2.92mm Female
Mounting:	4-Φ2.2mm through-hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-26400-33000-60

Customization is available upon request.

NBF-2700-3500-60

2.7~3.5GHz, 60dBc

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	2.7~3.5GHz
Passband Insertion Loss:	0.9dB max.
VSWR:	1.7 max.
Stopband Attenuation :	60dBc@2.4GHz min. 60dBc@3.8GHz min.
Average Power:	1W
Peak Power:	2W

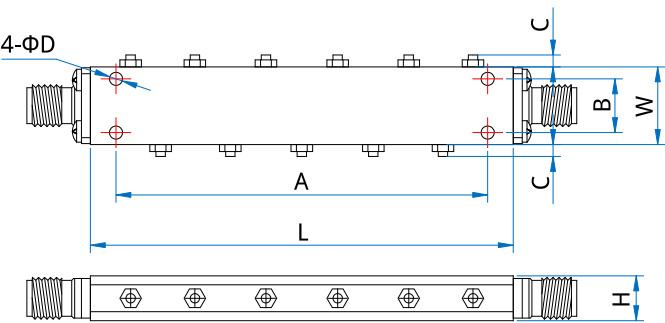
Mechanical

RF Connectors:	SMA Female
Mounting:	4*Φ2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D
mm	93	30	12	89	26	2.5	2.2
in	3.661	1.181	0.472	3.504	1.024	0.098	0.087

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

How To Order

NBF-2700-3500-60

Customization is available upon request.

NBF-273-277-50

0.273~0.277GHz, 50dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Frequency:	0.273~0.277GHz
Passband Insertion Loss:	2.5dB max.
Amplitude Ripple:	1dB max.
Group Delay Ripple:	150ns max.
3dB Bandwidth:	7MHz min.
Stopband Attenuation:	50dB@DC~260MHz min. 50dB@290~1000MHz min. 30dB@1000~1500MHz min.
VSWR:	2 max.
Average Power:	15dBm max.

Mechanical

Size*1:	3.8*3.8*1.5mm 0.15*0.15*0.059in
RF Connectors:	Surface Mounted

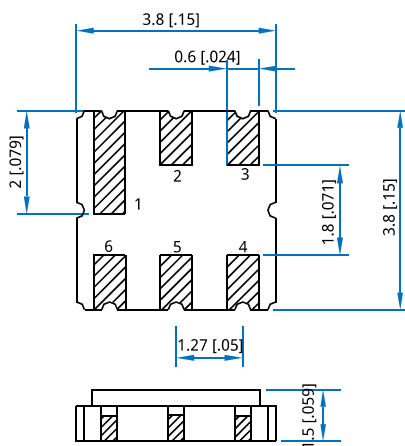
Environmental

Temperature:	-55~+85°C
--------------	-----------

Pin Numbering

Pin	Function	Pin	Function
1	GND	4	GND
2	Input	5	Output
3	GND	6	GND

Outline Drawings



Unit: mm [in]

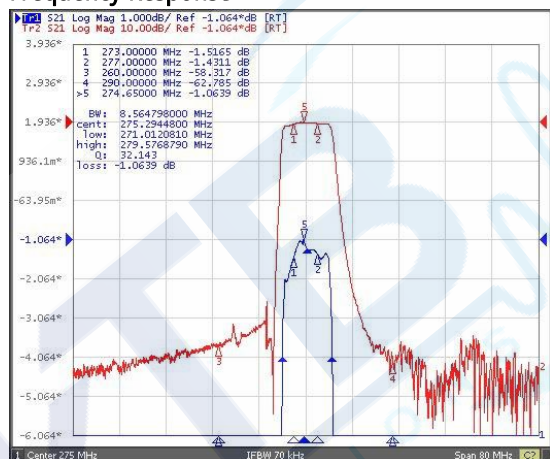
Tolerance: $\pm 0.2\text{mm}$ [$\pm 0.008\text{in}$]

How To Order

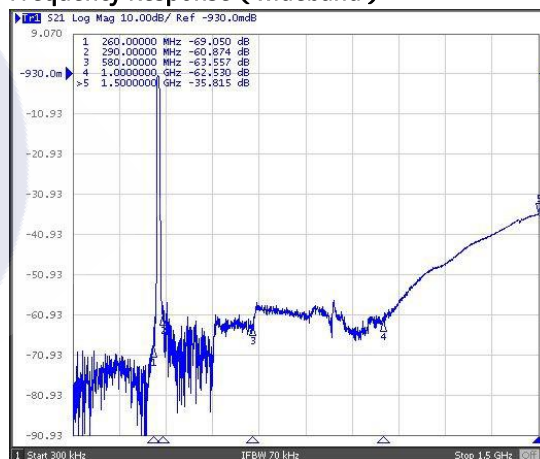
NBF-273-277-50

Customization is available upon request.

Frequency Response



Frequency Response (wideband)



NBF-27485-31315-50 27.485GHz~31.315GHz, 50dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation



Electrical

Passband:	27.485~31.315GHz
Passband Insertion Loss:	2.0dB max.
VSWR:	1.5 max.
Stopband Attenuation:	60dBc@26GHz min. 50dBc@32.3GHz min.

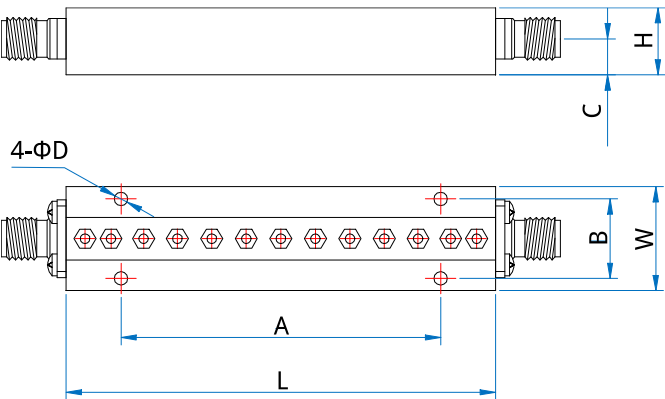
Mechanical

RF Connectors:	2.92mm Female
Mounting:	4*Φ2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D
mm	70.4	17	11	52.4	13	5.9	2.2
in	2.772	0.669	0.433	2.063	0.512	0.232	0.087

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

How To Order

NBF-27485-31315-50

Customization is available upon request.

NBF-27500-28500-60

27.5~28.5GHz, 60dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Frequency:	27.5~28.5GHz
Passband Insertion Loss:	2dB max.
Stopband Attenuation:	60dB@26.6GHz min. 60dB@29.5GHz min.
VSWR:	1.6 max.

Mechanical

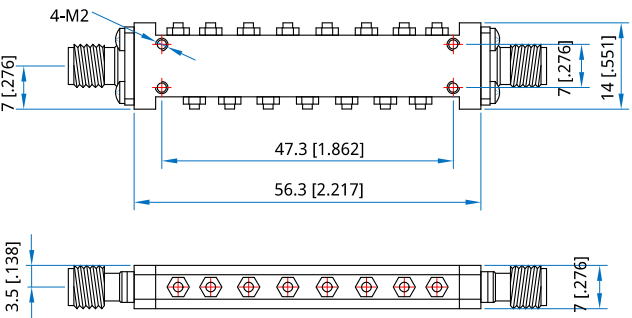
Size*1:	56.3*14*7mm 2.217*0.551*0.276in
RF Connectors:	2.92mm Female
Mounting:	4-M2 through-hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-27500-28500-60

Customization is available upon request.

NBF-27700-28300-60

27.7~28.3GHz, 60dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	27.7~28.3GHz
Passband Insertion Loss:	1.2dB max.
VSWR:	1.5 max.
Stopband Attenuation:	60dBc@DC~25.7GHz min. 60dBc@30.3~36GHz min.
Average Power:	20W

Mechanical

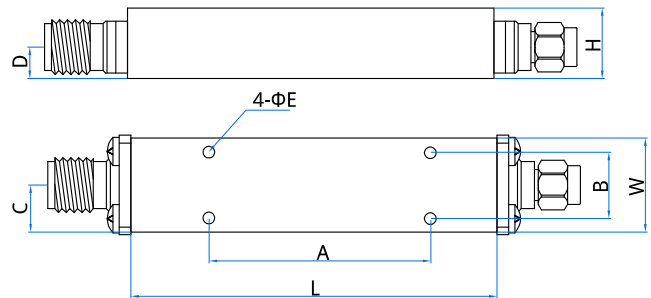
Size ^{*1} :	40*14*13mm 1.575*0.551*0.906in
RF Connectors:	2.92mm Male, 2.92mm Female
Mounting:	4-Φ2.3mm through-hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D	E
mm	40	14	13	23	10	7	5.24	2.3
in	1.575	0.551	0.512	0.906	0.394	0.276	0.206	0.091

Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-27700-28300-60

Customization is available upon request.

NBF-300-600-30

300~600MHz, 30dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	300~600MHz
Passband Insertion Loss:	1.8dB max.
Passband VSWR:	1.5 max.
Stopband Attenuation:	30dBc@260MHz min. 30dBc@650MHz min.

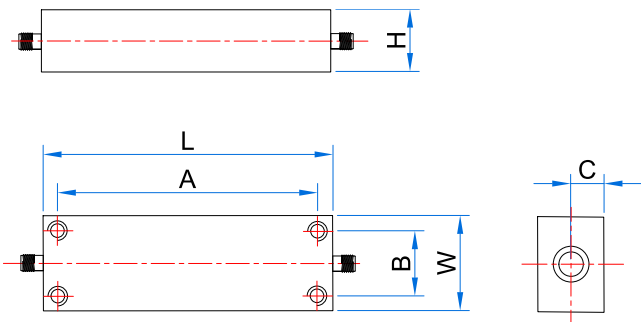
Mechanical

RF Connectors:	SMA Female
Mounting:	4-M2 through-hole

Environmental

Operating Temperature:	-45~+85°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C
mm	40.4	12	10	37.4	9	5
in	1.591	0.472	0.394	1.472	0.354	0.197

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

How To Order

NBF-300-600-30

Customization is available upon request.

NBF-310-443-50

0.31~0.443GHz, 50dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Frequency:	0.31~0.443GHz
Passband Insertion Loss:	1dB max.
Passband Ripple:	0.5dB max.
Stopband Attenuation:	50dB@DC~176.5MHz min. 50dB@576.5~1500MHz min.
VSWR:	1.5 max.
Impedance:	50Ω
Average Power:	50W max.

Mechanical

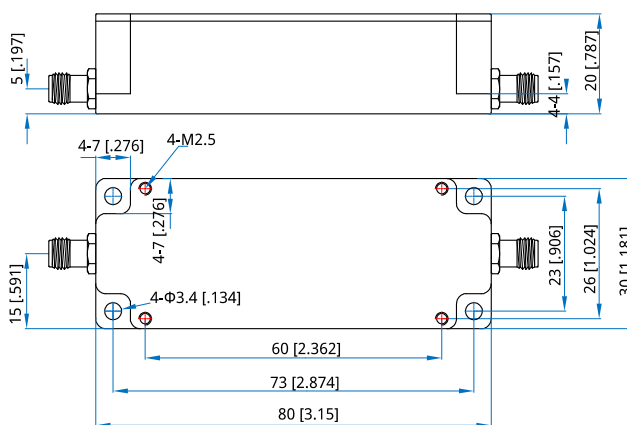
Size*1:	80*30*20mm
	3.15*1.181*0.787in
Weight:	65g
RF Connectors:	SMA female
Mounting:	4-M2.5 through-hole
	4-Φ3.4mm through-hole

[1] Exclude connectors.

Environmental

Temperature: -30~+70°C

Outline Drawings



Unit: mm [in]

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

How To Order

NBF-310-443-50

Customization is available upon request.

NBF-32500-33500-60

32.5~33.5GHz, 60dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	32.5~33.5GHz
Passband Insertion Loss:	1dB max.
VSWR:	1.6 max.
Stopband Attenuation:	60dB@31.5GHz min. 60dB@34.5GHz min.
Average Power:	50W

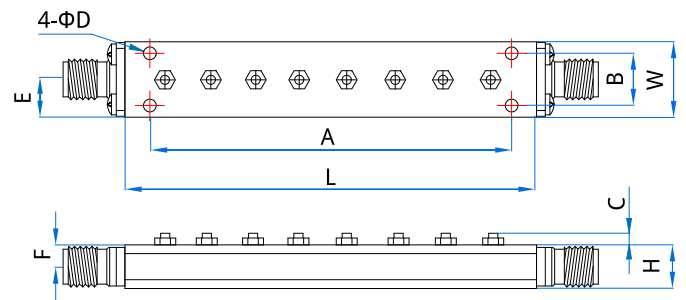
Mechanical

RF Connectors:	2.92mm Female
Mounting:	4-Φ2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D	E	F
mm	56	16	9	40	12	2	2.2	8	5
in	2.205	0.63	0.354	1.575	0.472	0.079	0.087	0.315	0.197

Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-32500-33500-60

Customization is available upon request.

NBF-36800-40200-58

36.8~40.2GHz, 58dBc

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	36.8~40.2GHz
Passband Insertion Loss:	2dB max.
Passband Ripple:	0.3dB max.
VSWR:	1.5 max.
Stopband Attenuation :	58dBc@DC~35.2GHz min.
	58dBc@42~67GHz min.

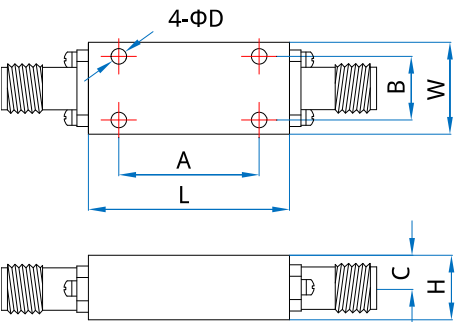
Mechanical

RF Connectors:	2.92mm Female
Mounting:	4*Φ2.3mm through-hole

Environmental

Operating Temperature:	0~+55°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D
mm	21.4	14.6	9.8	8	8.6	4.8	2.3
in	0.843	0.575	0.386	0.315	0.339	0.189	0.091

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

How To Order

NBF-36800-40200-58

Customization is available upon request.

NBF-38250-38750-30

38.25~38.75GHz, 30dBc

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	38.25~38.75GHz
Insertion Loss:	3.49dB max.
VSWR:	1.5 max.
Stopband Attenuation:	30dBc@37.95GHz min. 30dBc@39.05GHz min.
Average Power:	1W

Mechanical

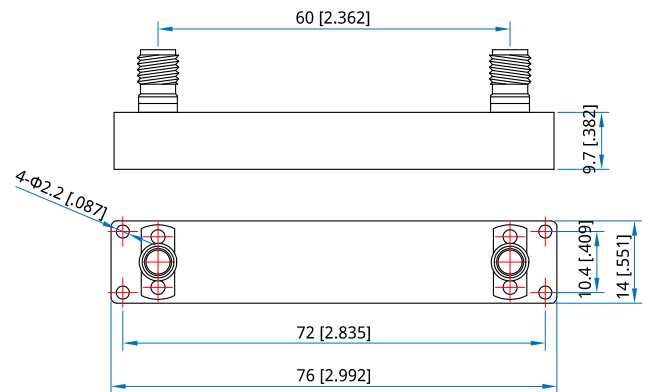
Size*1:	76*14*9.7mm 2.60*1.90*0.70in
Connectors:	2.92mm Female
Mounting:	4-Φ2.2mm through-hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-38250-38750-30

Customization is available upon request.

NBF-39700-40300-60

39.7~40.3GHz, 60dBc

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	39.7~40.3GHz
Passband Insertion Loss:	1.5dB max.
VSWR:	1.6 max.
Stopband Attenuation:	60dBc@DC~37.7GHz min. 60dBc@42.3~50GHz min.
Average Power:	20W

Mechanical

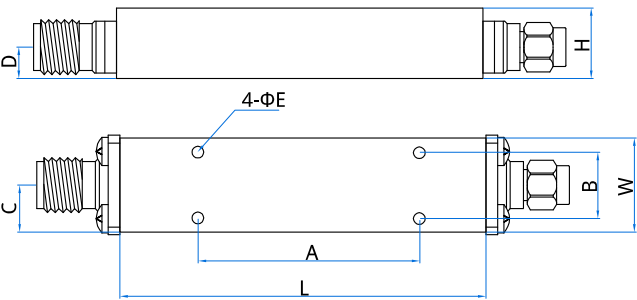
Size*1:	57*14*10mm 1.85*0.472*0.354in
RF Connectors:	2.92mm Male, 2.92mm Female
Mounting:	4-Φ2.3mm through-hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D	E
mm	57	14	10	36	10	7	4.81	2.3
in	2.244	0.551	0.394	1.417	0.394	0.276	0.189	0.091

Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-39700-40300-60

Customization is available upon request.

NBF-4000-6000-70

4~6GHz, 70dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	4~6GHz
Passband Insertion Loss:	2dB max.
Passband VSWR:	2 max.
Stopband Attenuation:	70dBc@DC~3.6GHz min. 70dBc@6.38~8GHz min.

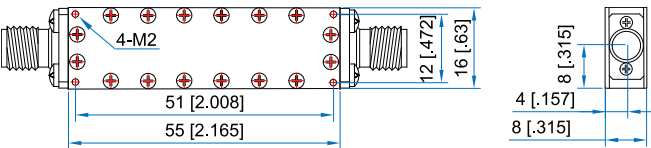
Mechanical

RF Connectors:	SMA Female
Mounting:	4-M2 through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



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

How To Order

NBF-4000-6000-70

Customization is available upon request.

NBF-40-100-30

0.04~0.1GHz, 30dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	0.04~0.1GHz
Passband Insertion Loss:	1.5dB max.
Passband Ripple:	0.8dB max.
VSWR:	1.5 max.
Stopband Attenuation:	30dB@DC~30MHz min. 30dB@118~400MHz min.
Impedance:	50Ω
Average Power:	1W max.

Mechanical

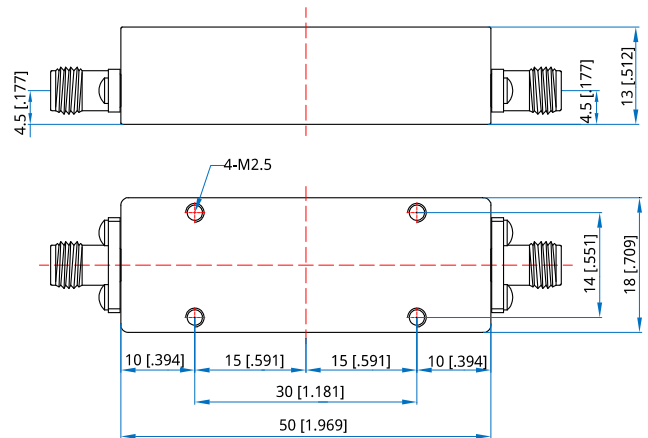
Size*1:	50*18*13mm 1.969*0.709*0.512in
Connectors:	SMA Female
Mounting:	4-M2.5 through hole

[1] Exclude connectors.

Environmental

Temperature:	-30~+70°C
--------------	-----------

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-40-100-30

Customization is available upon request.

NBF-5000-6000-35

5~6GHz, 35dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	2.4~2.5GHz
Insertion Loss:	1.5dB max.
VSWR:	1.5 max.
Stopband Attenuation:	35dB @DC~4.6GHz min. 35dB @6.4~10GHz min.

Mechanical

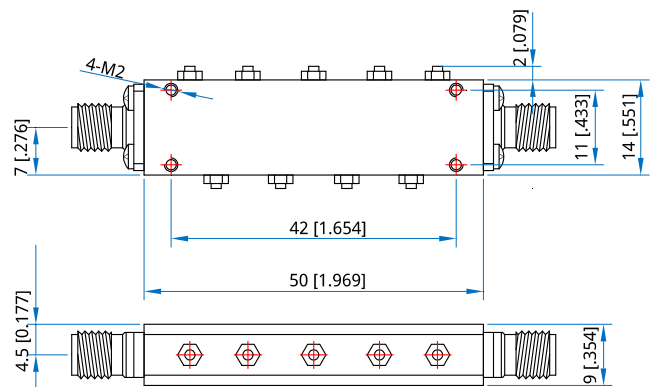
Size*1:	50*14*9mm 1.969*0.551*0.354in
Connectors:	SMA Female
Mounting:	4-M2 through-hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-5000-6000-35

Customization is available upon request.

NBF-5640-5660-50

5.64~5.66GHz, 50dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Frequency:	5.64~5.66GHz
Passband Insertion Loss:	0.6dB max.
Passband Attenuation:	0.15dB max.
Stopband Attenuation:	50dB@DC~5GHz min. 50dB@6.3~18GHz min.
VSWR:	1.3 max.
Average Power:	5W max.
Impedance:	50Ω

Mechanical

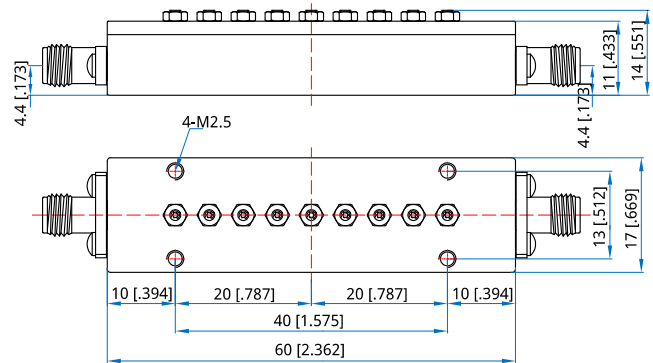
Size*1:	60*17*11mm 2.362*0.669*0.433in
RF Connectors:	SMA Female
Mounting:	4-M2.5 through-hole

[1] Exclude connectors.

Environmental

Temperature:	-30~+70°C
--------------	-----------

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-5640-5660-50

Customization is available upon request.

NBF-5700-5900-45 5.7~5.9GHz, 45dBc

- Features:
 * High Stopband Rejection
 * Small Size
- Applications:
 * Telecom
 * Laboratory Test
 * Receivers
 * Instrumentation

Electrical

Frequency:	5.7~5.9GHz
1dB Passband Width:	200MHz min.
Insertion Loss:	1.8dB max. @5.8GHz
Stopband Attenuation:	45dBc@5.5GHz min. 45dBc@6.1GHz min.
VSWR:	1.5 max.

Mechanical

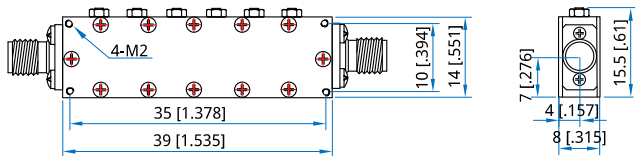
Size*1:	39*15.5*8mm 1.535*0.61*0.315in
RF Connectors:	SMA Female
Mounting:	4-M2 through-hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-45~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



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

How To Order

NBF-5700-5900-45

Customization is available upon request.

NBF-5841-6249-50

5.841~6.249GHz, 50dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	5.841~6.249GHz
Passband Insertion Loss:	1dB max.
Passband VSWR:	1.5 max.
Stopband Attenuation:	50dBc@DC~4.85GHz min. 50dBc@7.15~15GHz min.

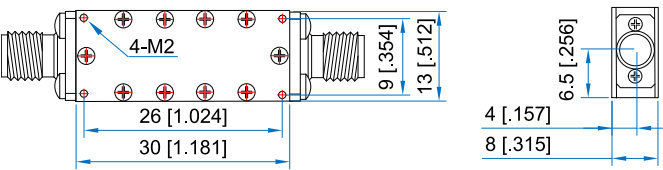
Mechanical

RF Connectors:	SMA Female
Mounting:	4-M2 through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



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

How To Order

NBF-5841-6249-50

Customization is available upon request.

NBF-6000-8192-20

6~8.192GHz, 20dBc

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	6~8.192GHz
Passband Insertion Loss:	3dB max.
VSWR:	1.8 max.
Stopband Attenuation :	10dBc@5900MHz min.
	10dBc@8300MHz min.
	20dBc@5700MHz min.
	20dBc@8500MHz min.

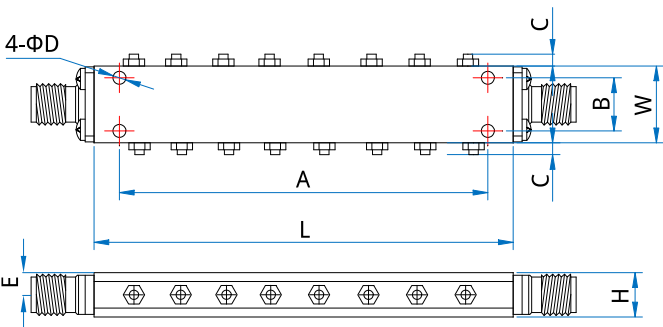
Mechanical

RF Connectors:	SMA Female
Mounting:	4-Φ2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D	E
mm	79	17	8.5	70.6	13.8	2	2.2	4.25
in	3.11	0.669	0.335	2.78	0.543	0.079	0.087	0.167

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

How To Order

NBF-6000-8192-20

Customization is available upon request.

NBF-6800-7800-40

6.8~7.8GHz, 40dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	6.8~7.8GHz
Passband Insertion Loss:	2dB max.
Passband Ripple:	0.8dB max.
VSWR:	1.5 max.
Stopband Attenuation :	40dBc@6.2GHz min.
	40dBc@8.4GHz min.

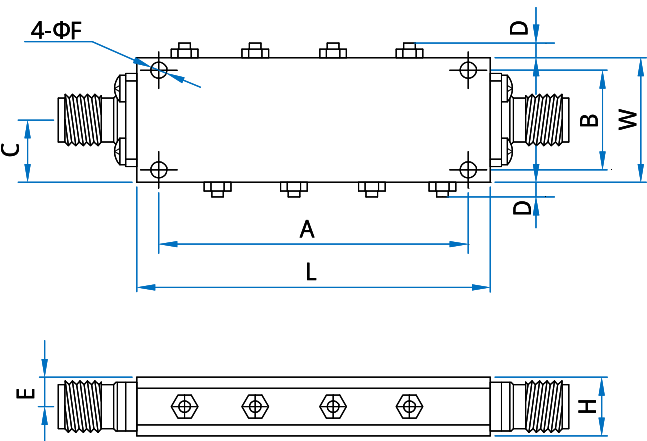
Mechanical

RF Connectors:	SMA Female
Mounting:	4*Φ2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+105°C

Outline Drawings



Size:	L	W	H	A	B	C	D	E	F
mm:	48	17	8	42	13.6	8.5	2	4	2.2
in:	1.890	0.669	0.315	1.654	0.535	0.335	0.079	1.575	0.087

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

How To Order

NBF-6800-7800-40

Customization is available upon request.

NBF-6867.2-7500-30

6.8672~7.5GHz, 30dBc

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	6.8672~7.5GHz
Passband Insertion Loss:	2dB max.
Passband Ripple:	1dB max.
VSWR:	1.5 max.
Stopband Attenuation :	10dBc@6.5925GHz min. 30dBc@5~6.3288GHz min.

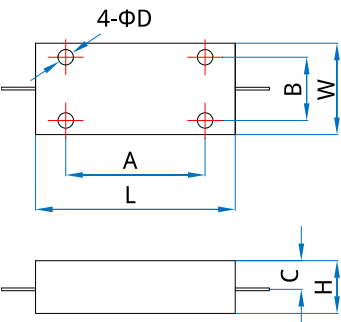
Mechanical

RF Connectors:	SMA Female, removable Φ0.38mm inner pin
Mounting:	4*Φ2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D
mm	27.8	14.5	7	22.8	10.5	3.5	2.2
in	1.094	0.571	0.276	0.898	0.413	0.138	0.087

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

How To Order

NBF-6867.2-7500-30

Customization is available upon request.

NBF-7000-7400-40

High Stopband Rejection

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	7~7.4GHz
Passband Insertion Loss:	1.2dB max.
VSWR:	1.5 max.
Stopband Attenuation :	40dBc@DC~6.76GHz min.
	40dBc@7.64~10GHz min.

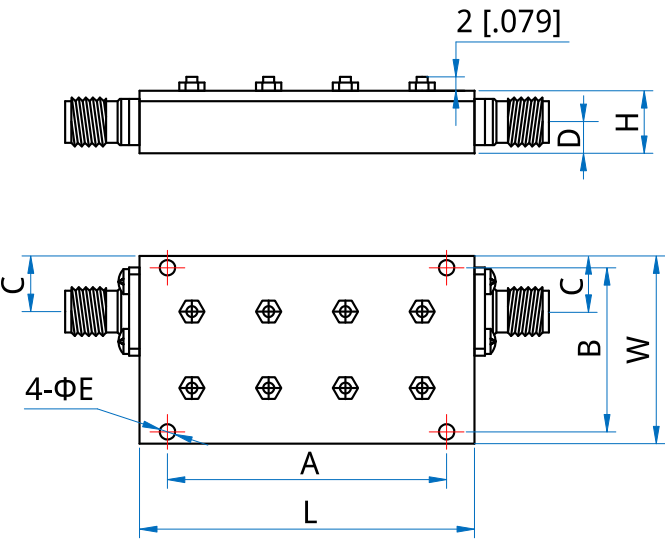
Mechanical

RF Connectors:	SMA Female
Mounting:	4*Φ2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D	E
mm	60	32	11	56	28	9	5.5	2.2
in	2.362	1.26	0.433	2.205	1.102	0.354	0.217	0.087

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

How To Order

NBF-7000-7400-40

Customization is available upon request.

NBF-7300-8300-40

7.3~8.3GHz, 40dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	7.3~8.3GHz
Passband Insertion Loss:	2dB max.
Passband Ripple:	0.8dB max.
VSWR:	1.5 max.
Stopband Attenuation :	40dBc@6.7GHz min.
	40dBc@9GHz min.

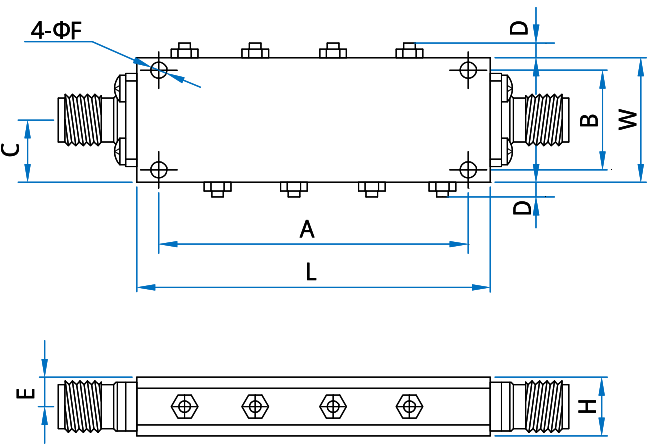
Mechanical

RF Connectors:	SMA Female
Mounting:	4*Φ2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+105°C

Outline Drawings



Size:	L	W	H	A	B	C	D	E	F
mm:	49	16	8	41	12.8	8	2	4	2.2
in:	1.929	0.63	0.315	1.614	0.505	0.315	0.079	1.575	0.087

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

How To Order

NBF-7300-8300-40

Customization is available upon request.

NBF-7400-12600-40

7.4~12.6GHz, 40dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	7.4~12.6GHz
Passband Insertion Loss:	1.5dB max.
Passband VSWR:	1.6 max.
Stopband Attenuation:	40dB@DC-6GHz max. 40dB@14-18GHz max.

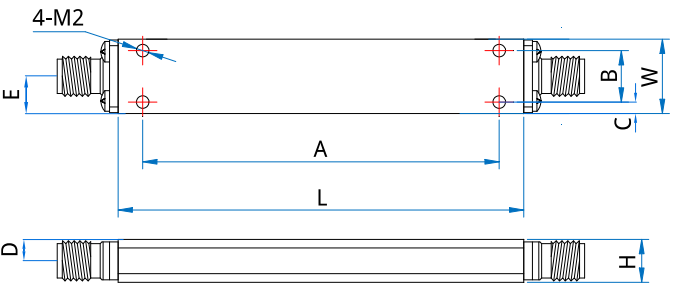
Mechanical

RF Connectors:	SMA Female
Mounting:	4-M2 through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D	E
mm	52	15	10	45	10	1.5	5	8.5
in	2.047	0.591	0.394	1.772	0.394	0.059	0.197	0.335

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

How To Order

NBF-7400-12600-40

Customization is available upon request.

NBF-7650-8350-50

7.65~8.35GHz, 50dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	7.65~8.35GHz
Passband Insertion Loss:	3dB max.
VSWR:	1.5 max.
Stopband Attenuation:	50dBc@7.15GHz min. 50dBc@8.5GHz min.

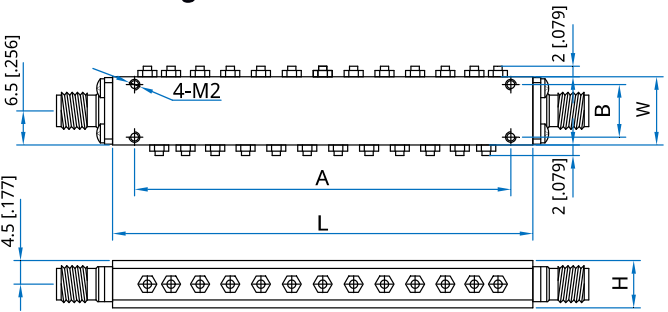
Mechanical

RF Connectors:	SMA Female, removable Φ0.38mm inner pin
Mounting:	4-M2 through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size:	L	W	H	A	B
mm:	80	13	9	71.6	10
in:	3.15	0.512	0.354	2.819	0.394

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

How To Order

NBF-7650-8350-50

Customization is available upon request.

NBF-7715-8695-80

7715~8695MHz, 80dBc

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	7715~8695MHz
Passband Insertion Loss:	3dB max.
Group Delay:	8nS max.
VSWR:	1.5 max.
Stopband Attenuation:	80dBc@7500MHz min. 80dBc@8910MHz min.

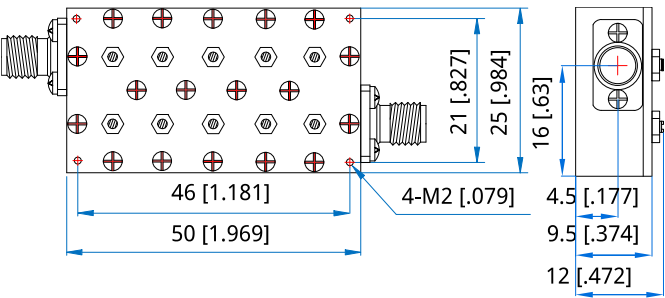
Mechanical

RF Connectors:	SMA Female, removable Φ0.4mm inner pin
Mounting:	4-M2 through-hole

Environmental

Operating Temperature:	-10~+50°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



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

How To Order

NBF-7715-8695-80

Customization is available upon request.

NBF-8000-11000-45

8~11GHz, 45dBc

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Frequency:	8~11GHz
3dB Bandwidth:	3000MHz
Passband Insertion Loss:	0.65dB max.
Stopband Attenuation:	45dBc@5GHz min. 80dBc@16~22GHz min.
VSWR:	1.8 max.

Mechanical

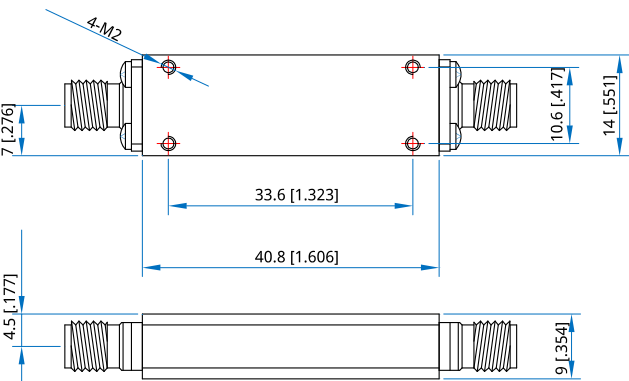
Size*1:	40.8*14*9mm 1.606*0.551*0.354in
RF Connectors:	SMA Female
Mounting:	4-M2 through-hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



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

How To Order

NBF-8000-11000-45

Customization is available upon request.

NBF-800-1200-45

0.8~1.2GHz, 45dBc

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Frequency:	0.8~1.2GHz
1dB Bandwidth:	400MHz min.
Passband Insertion Loss:	1dB max.
Stopband Attenuation:	45dBc@550MHz min. 45dBc@1450MHz min.
VSWR:	1.8 max.
Average Power:	40W

Mechanical

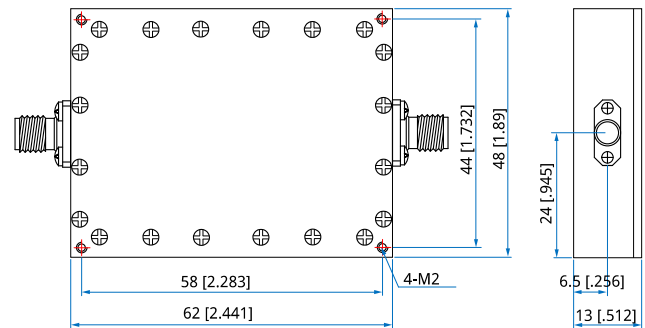
Size*1:	62*48*13mm 2.441*1.89*0.512in
RF Connectors:	SMA Female
Mounting:	4-M2 through-hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-800-1200-45

Customization is available upon request.

NBF-818-918-45

0.818~0.918GHz, 45dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Frequency:	0.818~0.918GHz
-1dB Passband Width:	100MHz min.
Passband Insertion Loss:	3dB max.
Stopband Attenuation:	45dB@668MHz min. 45dB@1068MHz min.
VSWR:	1.5 max.

Mechanical

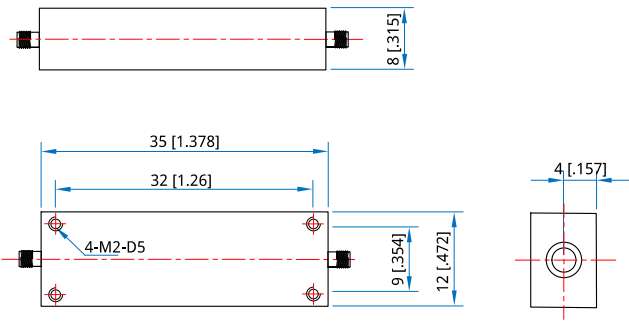
Size*1:	35*12*8mm 1.378*0.472*0.315in
RF Connectors:	SMA female
Mounting:	4-M2 depth 5mm

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-818-918-45

Customization is available upon request.

NBF-8192-16384-20
 8192~16384MHz, 20dBc

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	8192~16384MHz
Passband Insertion Loss:	3dB max.
VSWR:	1.8 max.
Stopband Attenuation :	10dBc@7.5GHz min. 10dBc@17.1GHz min. 20dBc@7.1GHz min. 20dBc@17.5GHz min.

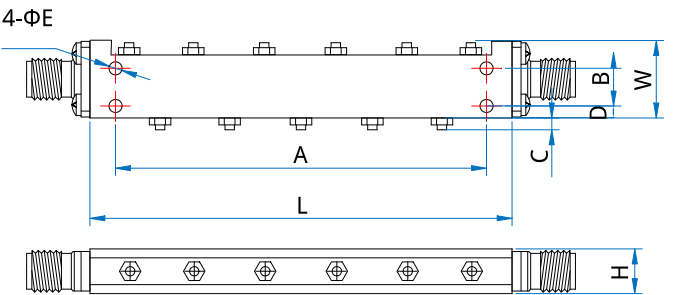
Mechanical

RF Connectors:	SMA Female
Mounting:	4-Φ2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D	E
mm	52	14.5	11.6	42.6	9	2	1.5	2.2
in	2.047	0.571	0.457	1.677	0.354	0.079	0.059	0.087

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

How To Order
NBF-8192-16384-20

Customization is available upon request.

NBF-8400-9600-30

8.4~9.6GHz, 30dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	8.4~9.6GHz
Passband Insertion Loss:	2dB max.
VSWR:	1.5 max.
Stopband Attenuation:	30dB@DC~8GHz min. 30dB@10~18GHz min.

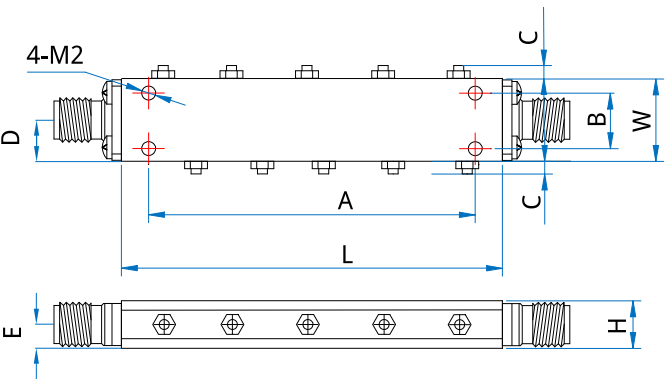
Mechanical

RF Connectors:	SMA Female
Mounting:	4-M2 through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size:	L	W	H	A	B	C	D	E
mm:	64	13	9	55.8	9.8	2	6.5	4.5
in:	2.52	0.512	0.354	2.197	0.386	0.079	0.256	0.177

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

How To Order

NBF-8400-9600-30

Customization is available upon request.

NBF-8500-9500-40

8.5~9.5GHz, 40dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	8.5~9.5GHz
Passband Insertion Loss:	2dB max.
Passband Ripple:	0.8dB max.
VSWR:	1.5 max.
Stopband Attenuation:	40dBc@7.6GHz min.
	40dBc@10.3GHz min.

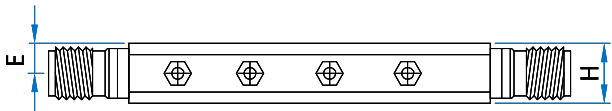
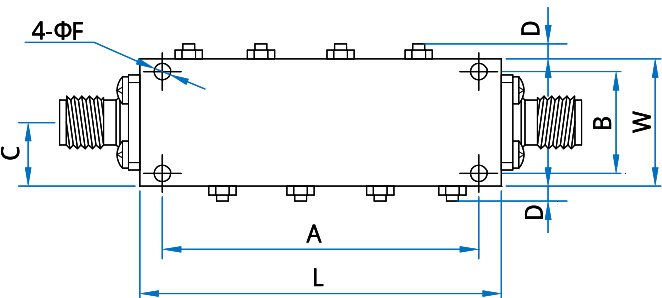
Mechanical

RF Connectors:	SMA Female
Mounting:	4*Φ2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+105°C

Outline Drawings



Size:	L	W	H	A	B	C	D	E	F
mm:	50	15	8	42	11.6	7.5	2	4	2.2
in:	1.969	0.591	0.315	1.654	0.457	0.295	0.079	1.575	0.087

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

How To Order

NBF-8500-9500-40

Customization is available upon request.

NBF-860-880-60

0.86~0.88GHz, 60dBc

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Frequency:	0.86~0.88GHz
Passband Width:	20~25MHz
Passband Insertion Loss:	1.5dB max.
Stopband Attenuation:	60dBc@DC~837.5MHz min. 60dBc@902.5~2000MHz min.
VSWR:	1.5 max.

Mechanical

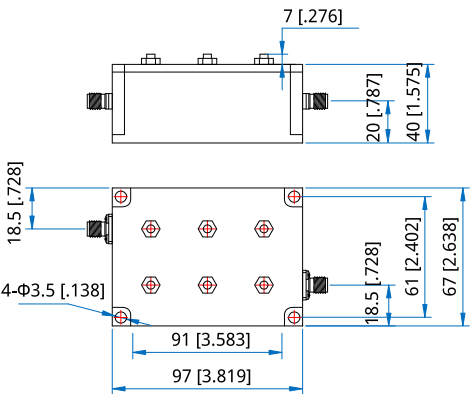
Size*1:	97*67*40mm 3.819*2.638*1.575in
RF Connectors:	SMA Female
Mounting:	4-Φ3.5mm through-hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



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

How To Order

NBF-860-880-60

Customization is available upon request.

NBF-8700-12800-35

8.7~12.8GHz, 35dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

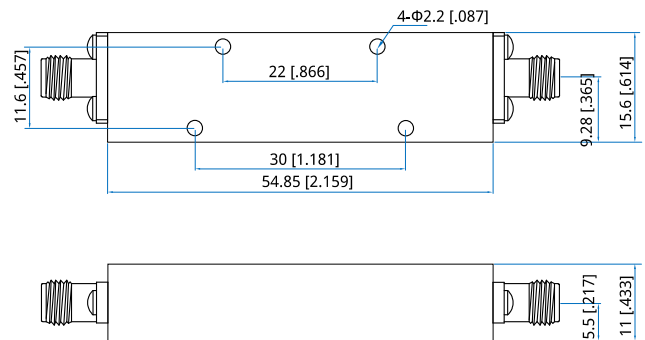
Passband:	8.7~12.8GHz
Passband Insertion Loss:	0.5dB max.
VSWR:	1.5 max.
Stopband Attenuation:	25dB@8GHz min. 35dB@14GHz min.

Mechanical

Size*1:	54.85*15.6*11mm 2.159*0.614*0.433in
Connectors:	SMA Female
Mounting:	4-Φ2.2mm through-hole

[1] Exclude connectors.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-8700-12800-35

Customization is available upon request.

NBF-890-910-60

0.89~0.91GHz, 60dBc

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Frequency:	0.89~0.91GHz
Passband Width:	20~25MHz
Passband Insertion Loss:	1.5dB max.
Stopband Attenuation:	60dBc@DC~867.5MHz min. 60dBc@932.5~2000MHz min.
VSWR:	1.5 max.

Mechanical

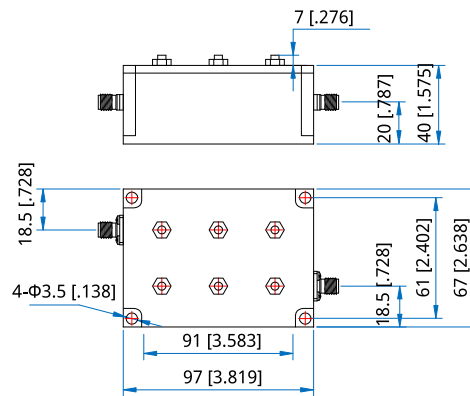
Size*1:	97*67*40mm 3.819*2.638*1.575in
RF Connectors:	SMA Female
Mounting:	4-Φ3.5mm through-hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-890-910-60

Customization is available upon request.

NBF-9000-10000-40

9~10GHz, 40dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	9~10GHz
Passband Insertion Loss:	2dB max.
Passband Ripple:	0.8dB max.
VSWR:	1.5 max.
Stopband Attenuation :	40dBc@8.3GHz min.
	40dBc@10.6GHz min.

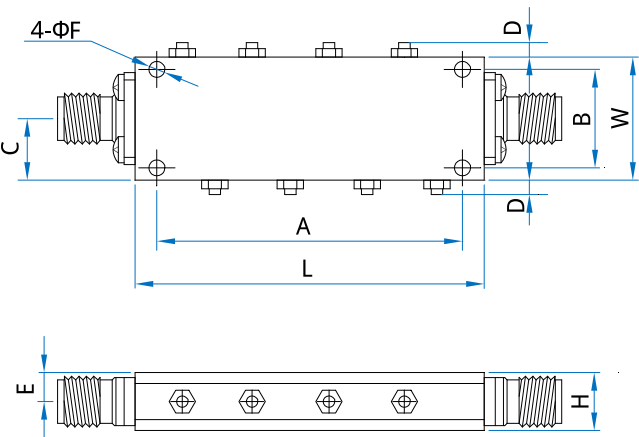
Mechanical

RF Connectors:	SMA Female
Mounting:	4*Φ2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+105°C

Outline Drawings



Size:	L	W	H	A	B	C	D	E	F
mm:	51	14	8	43	11	7	2	4	2.2
in:	2.008	0.551	0.315	1.693	0.433	0.376	0.079	1.575	0.087

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

How To Order

NBF-9000-10000-40

Customization is available upon request.

NBF-9000-14000-40

9~14GHz, 40dB

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Passband:	9~14GHz
Passband Insertion Loss:	1.5dB max.
Passband VSWR:	1.8 max.
Stopband Attenuation:	40dBc@DC~8GHz min. 40dBc@15~23GHz min.

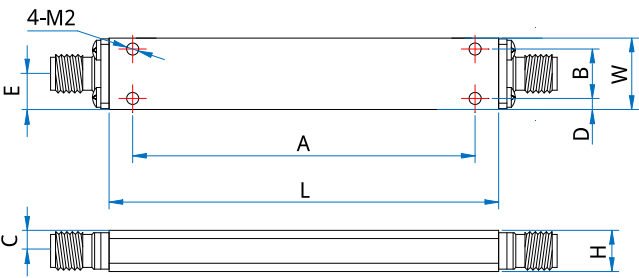
Mechanical

RF Connectors:	SMA Female
Mounting:	4-M2 through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D	E
mm	60	14.5	9.5	52	8.9	4.75	1.7	8
in	2.362	0.571	0.374	2.047	0.35	0.187	0.067	0.315

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

How To Order

NBF-9000-14000-40

Customization is available upon request.

NBF-920-940-60

0.92~0.94GHz, 60dBc

- Features:

 - * High Stopband Rejection
 - * Small Size
- Applications:

 - * Telecom
 - * Laboratory Test
 - * Receivers
 - * Instrumentation

Electrical

Frequency:	0.92~0.94GHz
Passband Width:	20~25MHz
Passband Insertion Loss:	1.5dB max.
Stopband Attenuation:	60dBc@DC~897.5MHz min. 60dBc@962.5~2000MHz min.
VSWR:	1.5 max.

Mechanical

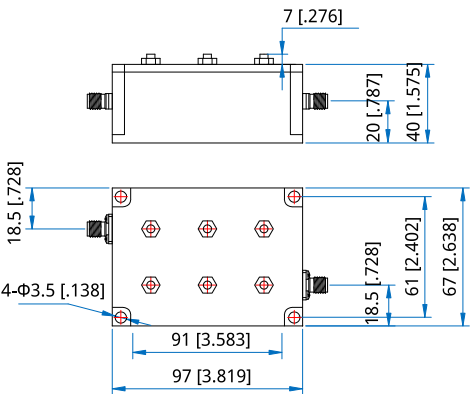
Size*1:	97*67*40mm 3.819*2.638*1.575in
RF Connectors:	SMA Female
Mounting:	4-Φ3.5mm through-hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



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

How To Order

NBF-920-940-60

Customization is available upon request.

NBF-9250-10750-60

9.25~10.75GHz, 60dBc

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

Passband:	9.25~10.75GHz
Passband Insertion Loss:	1.2dB max.
VSWR:	1.7 max.
Stopband Attenuation :	60dBc@8.9GHz min. 60dBc@11.1GHz min.
Average Power:	1W
Peak Power:	2W

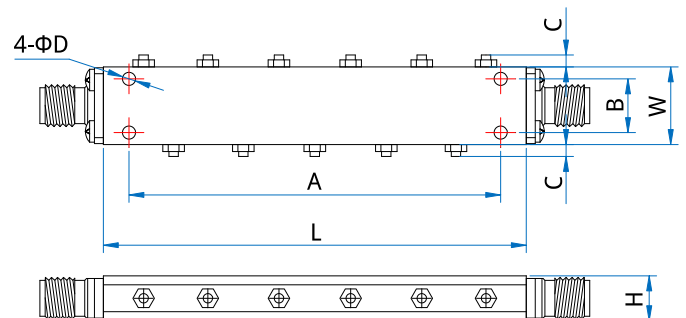
Mechanical

RF Connectors:	SMA Female
Mounting:	4*Φ2.2mm through-hole

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Size	L	W	H	A	B	C	D
mm	102	14	11	93.8	10.8	2	2.2
in	4.016	0.551	0.433	3.693	0.425	0.079	0.087

Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-9250-10750-60

Customization is available upon request.

NBF-9400-10600-30

9.4~10.6GHz, 30dB

Features:

- * High Stopband Rejection
- * Small Size

Applications:

- * Telecom
- * Laboratory Test
- * Receivers
- * Instrumentation

Electrical

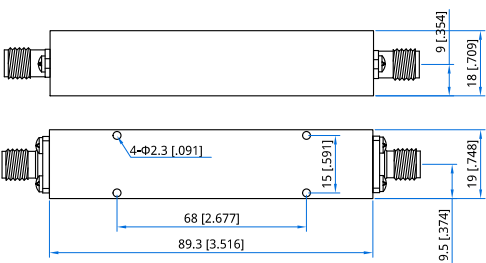
Frequency::	9.4~10.6GHz
Center Frequency:	10GHz
Bandwidth:	1.2GHz min.
Insertion Loss:	1.5dB max.
VSWR:	1.5 max.
Rejection:	30dBc@9GHz&11GHz min.

Mechanical

Size*1:	89.3*19*18mm 3.516*0.748*0.709in
RF Connectors:	SMA Female
Material:	Aluminum
Mounting:	4-Φ2.3mm through-hole

[1] Exclude connectors.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NBF-9400-10600-30

Customization is available upon request.