

NCHA22

2.07~2.83GHz, C22

Features:
* Broadband

Applications:
* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency: 2.07~2.83GHz
Center Frequency: 2.4GHz
Gain: 10, 12, 15, 18dB
VSWR: 1.25 max.
3dB Beam Width: 60°, 46°, 33°, 23°

Mechanical

Interface: C22

How To Order

NCHA22-X

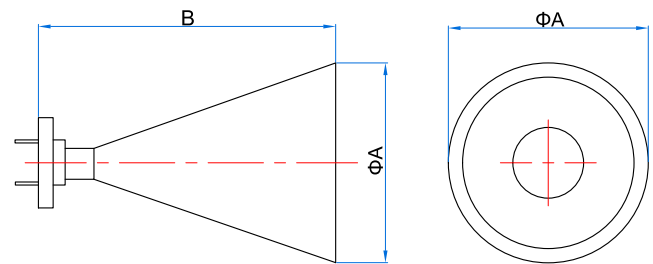
X: Gain in dB

Examples:

To order an antenna, 2.07-2.83GHz, 10dB, C22, specify NCHA22-10.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
10dB	130 [5.118]	90 [3.543]
12dB	170 [6.693]	170 [6.693]
15dB	260 [10.236]	250 [9.843]
18dB	380 [14.961]	400 [15.748]

NCHA25

2.42~3.31GHz, C25

Features:

* Broadband

Applications:

* Wireless
* Transceiver
* Laboratory Test
* Broadcast

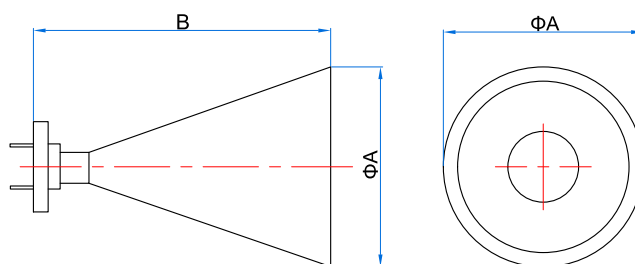
Electrical

Frequency: 2.42~3.31GHz
Center Frequency: 2.8GHz
Gain: 10, 12, 15, 18dB
VSWR: 1.25 max.
3dB Beam Width: 60°, 46°, 33°, 23°

Mechanical

Interface: C25

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NCHA25-X

X: Gain in dB

Examples:

To order an antenna, 2.42-3.31GHz, 10dB, C25, specify NCHA25-10.

Customization is available upon request.

Gain	A	B
10dB	110 [4.331]	80 [3.15]
12dB	140 [5.512]	150 [5.906]
15dB	220 [8.661]	210 [8.268]
18dB	330 [12.992]	340 [13.386]

NCHA30

2.83~3.88GHz, C30

Features:
* Broadband

Applications:
* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency: 2.83~3.88GHz
Center Frequency: 3.3GHz
Gain: 10, 12, 15, 18dB
VSWR: 1.25 max.
3dB Beam Width: 60°, 46°, 33°, 23°

Mechanical

Interface: C30

How To Order

NCHA30-X

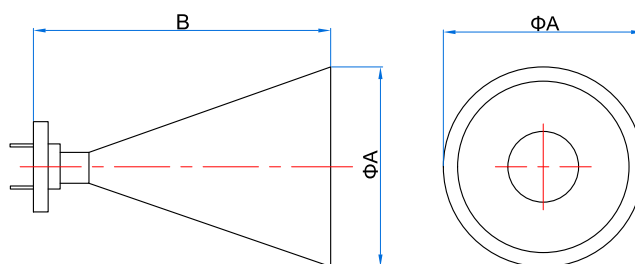
X: Gain in dB

Examples:

To order an antenna, 2.83-3.88GHz, 10dB, C30, specify NCHA30-10.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
10dB	100 [3.937]	70 [2.756]
12dB	120 [4.724]	130 [5.118]
15dB	190 [7.48]	180 [7.087]
18dB	280 [11.024]	290 [11.417]

NCHA35

3.13~4.54GHz, C35

Features:

* Broadband

Applications:

* Wireless
* Transceiver
* Laboratory Test
* Broadcast

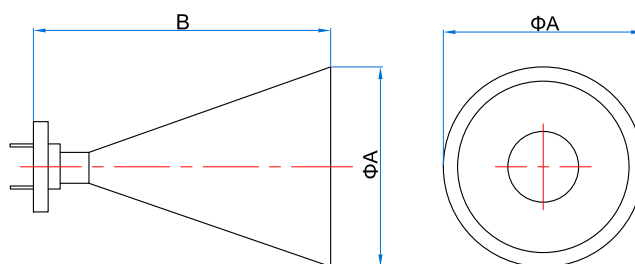
Electrical

Frequency: 3.13~4.54GHz
Center Frequency: 3.9GHz
Gain: 10, 12, 15, 18dB
VSWR: 1.25 max.
3dB Beam Width: 60°, 46°, 33°, 23°

Mechanical

Interface: C35

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NCHA35-X

X: Gain in dB

Examples:

To order an antenna, 3.13-4.54GHz, 10dB, C35, specify NCHA35-10.

Customization is available upon request.

Gain	A	B
10dB	80 [3.15]	60 [2.362]
12dB	100 [3.937]	110 [4.331]
15dB	160 [6.299]	150 [5.906]
18dB	240 [9.449]	250 [9.843]

NCHA40

3.89~5.33GHz, C40

Features:

* Broadband

Applications:

* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency: 3.89~5.33GHz
Center Frequency: 4.6GHz
Gain: 12, 15, 18, 20dB
VSWR: 1.25 max.
3dB Beam Width: 46°, 33°, 23°, 17°

Mechanical

Interface: C40

How To Order

NCHA40-X

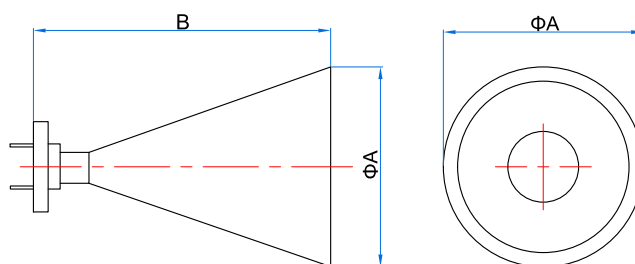
X: Gain in dB

Examples:

To order an antenna, 3.89-5.33GHz, 12dB, C40, specify NCHA40-12.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
12dB	90 [3.543]	90 [3.543]
15dB	140 [5.512]	130 [5.118]
18dB	200 [7.874]	210 [8.268]
20dB	260 [10.236]	370 [14.567]

NCHA48

4.54~6.23GHz, C48

Features:
* Broadband

Applications:
* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency:	4.54~6.23GHz
Center Frequency:	4.6GHz
Gain:	12, 15, 18, 20dB
VSWR:	1.25 max.
3dB Beam Width:	46°, 33°, 23°, 17°

Mechanical

Interface: C48

How To Order

NCHA48-X

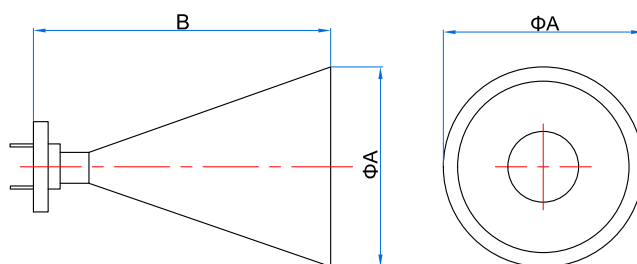
X: Gain in dB

Examples:

To order an antenna, 4.54-6.23GHz, 12dB, C48, specify NCHA48-12.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
12dB	75 [2.953]	80 [3.15]
15dB	120 [4.724]	110 [4.331]
18dB	180 [7.087]	180 [7.087]
20dB	230 [9.055]	320 [12.598]

NCHA56

5.3~7.27GHz, C56

Features:
* Broadband

Applications:
* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency: 5.3~7.27GHz
Center Frequency: 6.2GHz
Gain: 12, 15, 18, 20dB
VSWR: 1.25 max.
3dB Beam Width: 46°, 33°, 23°, 17°

Mechanical

Interface: C56

How To Order

NCHA56-X

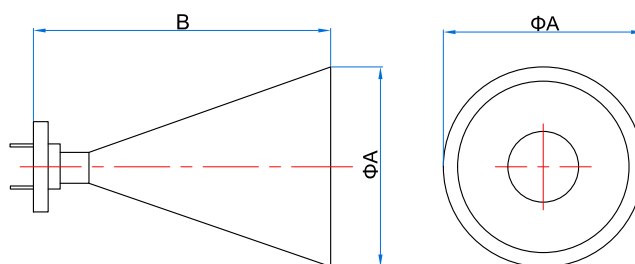
X: Gain in dB

Examples:

To order an antenna, 5.3-7.27GHz, 12dB, C56, specify NCHA56-12.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
12dB	65 [2.559]	70 [2.756]
15dB	100 [3.937]	100 [3.937]
18dB	150 [5.906]	160 [6.299]
20dB	200 [7.874]	280 [11.024]

NCHA65

6.21~8.51GHz, C65

Features:

* Broadband

Applications:

* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency: 6.21~8.51GHz
Center Frequency: 7.3GHz
Gain: 12, 15, 18, 20dB
VSWR: 1.25 max.
3dB Beam Width: 46°, 33°, 23°, 17°

Mechanical

Interface: C65

How To Order

NCHA65-X

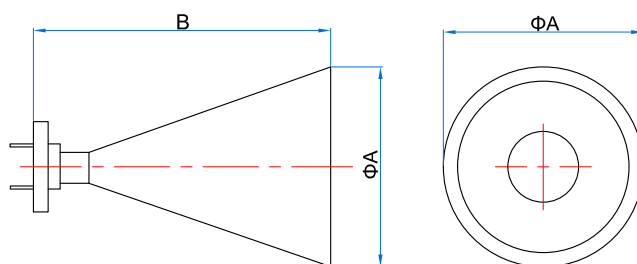
X: Gain in dB

Examples:

To order an antenna, 6.21-8.51GHz, 12dB, C65, specify NCHA65-12.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
12dB	55 [2.165]	60 [2.362]
15dB	90 [3.543]	80 [3.15]
18dB	130 [5.118]	130 [5.118]
20dB	170 [6.693]	240 [9.449]

NCHA76

7.27~9.97GHz, C76

Features:

* Broadband

Applications:

* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency:	7.27~9.97GHz
Center Frequency:	8.6GHz
Gain:	15, 18, 20, 22dB
VSWR:	1.25 max.
3dB Beam Width:	33°, 23°, 17°, 12°

Mechanical

Interface: C76

How To Order

NCHA76-X

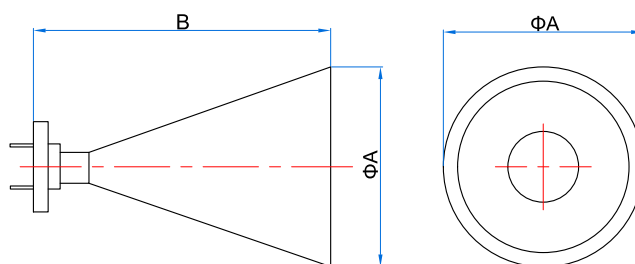
X: Gain in dB

Examples:

To order an antenna, 7.27-9.97GHz, 15dB, C76, specify NCHA76-15.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
15dB	80 [3.15]	70 [2.756]
18dB	110 [4.331]	110 [4.331]
20dB	140 [5.512]	200 [7.874]
22dB	210 [8.268]	300 [11.811]

NCHA89

8.49~11.6GHz, C89

Features:

* Broadband

Applications:

* Wireless
* Transceiver
* Laboratory Test
* Broadcast

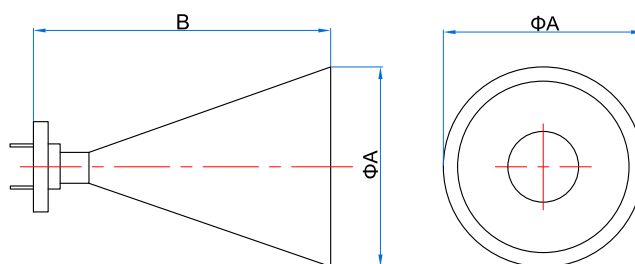
Electrical

Frequency: 8.49~11.6GHz
Center Frequency: 10GHz
Gain: 15, 18, 20, 22dB
VSWR: 1.25 max.
3dB Beam Width: 33°, 23°, 17°, 12°

Mechanical

Interface: C89

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NCHA89-X

X: Gain in dB

Examples:

To order an antenna, 8.49-11.6GHz, 15dB, C89, specify NCHA89-15.

Customization is available upon request.

Gain	A	B
15dB	65 [2.559]	60 [2.362]
18dB	100 [3.937]	100 [3.937]
20dB	120 [4.724]	170 [6.693]
22dB	180 [7.087]	260 [10.236]

NCHA104

9.97~13.7GHz, C104

Features:
* Broadband

Applications:
* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency: 9.97~13.7GHz
Center Frequency: 11.8GHz
Gain: 15, 18, 20, 22dB
VSWR: 1.25 max.
3dB Beam Width: 33°, 23°, 17°, 12°

Mechanical

Interface: C104

How To Order

NCHA104-X

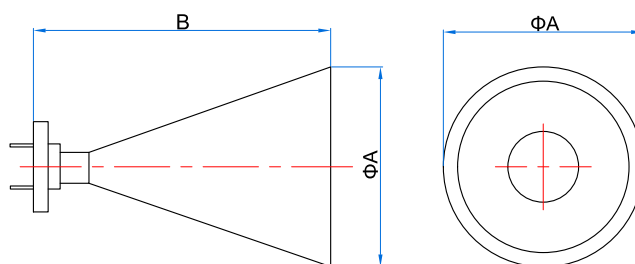
X: Gain in dB

Examples:

To order an antenna, 9.97-13.7GHz, 15dB, C104, specify NCHA104-15.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
15dB	55 [2.165]	50 [1.969]
18dB	80 [3.15]	80 [3.15]
20dB	110 [4.331]	150 [5.906]
22dB	150 [5.906]	220 [8.661]

NCHA120

11.6~15.9GHz, C120

Features:
* Broadband

Applications:
* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency:	11.6~15.9GHz
Center Frequency:	13.7GHz
Gain:	15, 18, 20, 22dB
VSWR:	1.25 max.
3dB Beam Width:	33°, 23°, 17°, 12°

Mechanical

Interface: C120

How To Order

NCHA120-X

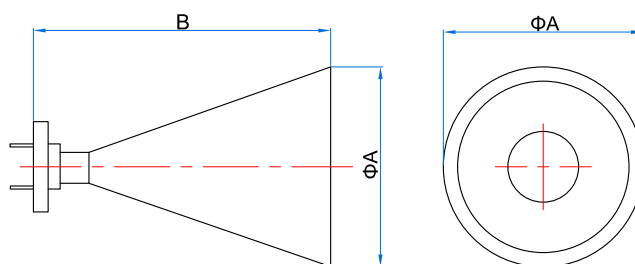
X: Gain in dB

Examples:

To order an antenna, 11.6-15.9GHz, 15dB, C120, specify NCHA120-15.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
15dB	50 [1.969]	45 [1.772]
18dB	70 [2.756]	70 [2.756]
20dB	90 [3.543]	130 [5.118]
22dB	130 [5.118]	190 [7.48]

NCHA140

13.4~18.4GHz, C140

Features:

* Broadband

Applications:

* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency:	13.4~18.4GHz
Center Frequency:	15.9GHz
Gain:	18, 20, 22, 25dB
VSWR:	1.25 max.
3dB Beam Width:	23°, 17°, 12°, 9°

Mechanical

Interface: C140

How To Order

NCHA140-X

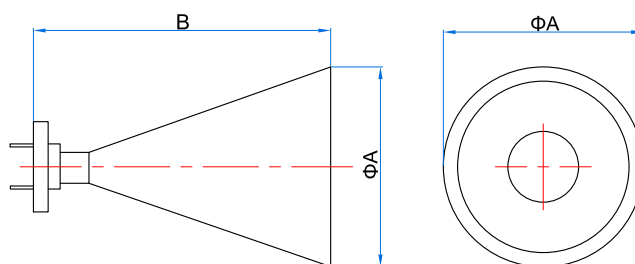
X: Gain in dB

Examples:

To order an antenna, 13.4-18.4GHz, 18dB, C140, specify NCHA140-18.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
18dB	60 [2.362]	60 [2.362]
20dB	80 [3.15]	110 [4.331]
22dB	115 [4.528]	170 [6.693]
25dB	165 [6.496]	360 [14.173]

NCHA165

15.9~22.8GHz, C165

Features:

* Broadband

Applications:

* Wireless
* Transceiver
* Laboratory Test
* Broadcast

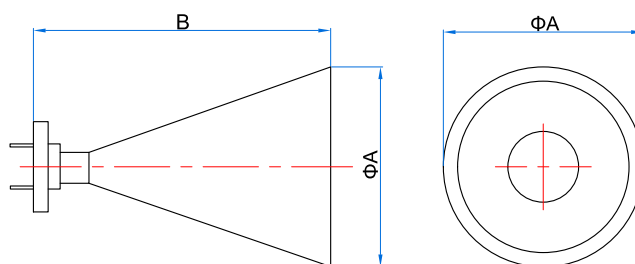
Electrical

Frequency:	15.9~22.8GHz
Center Frequency:	18.8GHz
Gain:	18, 20, 22, 25dB
VSWR:	1.25 max.
3dB Beam Width:	23°, 17°, 12°, 9°

Mechanical

Interface: C165

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NCHA165-X

X: Gain in dB

Examples:

To order an Antenna, 15.9-22.8GHz, 18dB, C165, specify NCHA165-18.

Customization is available upon request.

Gain	A	B
18dB	50 [1.969]	55 [2.165]
20dB	70 [2.756]	90 [3.543]
22dB	100 [3.937]	140 [5.512]
25dB	140 [5.512]	310 [12.205]

NCHA190

18.2~24.9GHz, C190

Features:

* Broadband

Applications:

* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency:	18.2~24.9GHz
Center Frequency:	21.5GHz
Gain:	18, 20, 22, 25dB
VSWR:	1.25 max.
3dB Beam Width:	23°, 17°, 12°, 9°

Mechanical

Interface: C190

How To Order

NCHA190-X

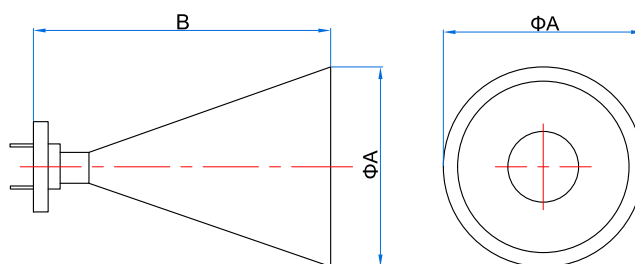
X: Gain in dB

Examples:

To order an Antenna, 18.2-24.9GHz, 18dB, C190, specify NCHA190-18.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
18dB	45 [1.772]	45 [1.772]
20dB	60 [2.362]	80 [3.15]
22dB	85 [3.346]	120 [4.724]
25dB	120 [4.724]	270 [10.63]

NCHA220

21.2~29.1GHz, C220

Features:
* Broadband

Applications:
* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency:	21.2~29.1GHz
Center Frequency:	25.1GHz
Gain:	18, 20, 22, 25dB
VSWR:	1.25 max.
3dB Beam Width:	23°, 17°, 12°, 9°

Mechanical

Interface: C220

How To Order

NCHA220-X

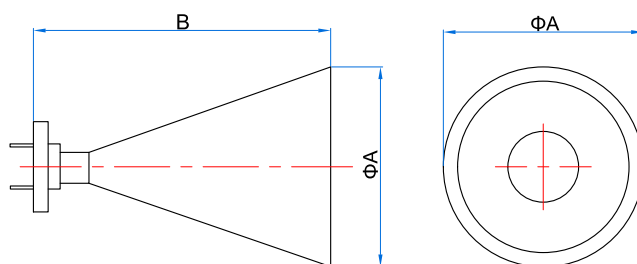
X: Gain in dB

Examples:

To order an Antenna, 21.2-29.1GHz, 18dB, C220, specify NCHA220-18.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
18dB	40 [1.575]	40 [1.575]
20dB	50 [1.969]	70 [2.756]
22dB	75 [2.953]	110 [4.331]
25dB	110 [4.331]	230 [9.055]

NCHA255

24.3~33.2GHz, C255

Features:

* Broadband

Applications:

* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency:	24.3~33.2GHz
Center Frequency:	28.7GHz
Gain:	18, 20, 22, 25dB
VSWR:	1.25 max.
3dB Beam Width:	23°, 17°, 12°, 9°

Mechanical

Interface: C255

How To Order

NCHA255-X

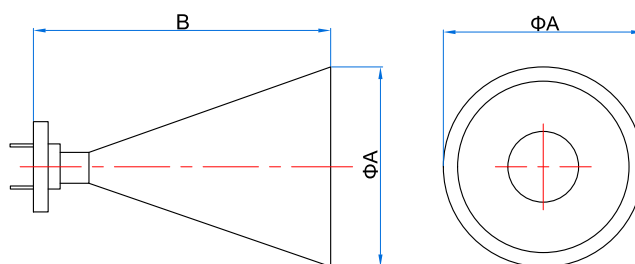
X: Gain in dB

Examples:

To order an Antenna, 24.3~33.2GHz, 18dB, C255, specify NCHA255-18.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
18dB	35 [1.378]	35 [1.378]
20dB	50 [1.969]	60 [2.362]
22dB	65 [2.559]	90 [3.543]
25dB	90 [3.543]	200 [7.874]

NCHA290

28.3~38.8GHz, C290

Features:

* Broadband

Applications:

* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency:	28.3~38.8GHz
Center Frequency:	33.5GHz
Gain:	18, 20, 22, 25dB
VSWR:	1.25 max.
3dB Beam Width:	23°, 17°, 12°, 9°

Mechanical

Interface: C290

How To Order

NCHA290-X

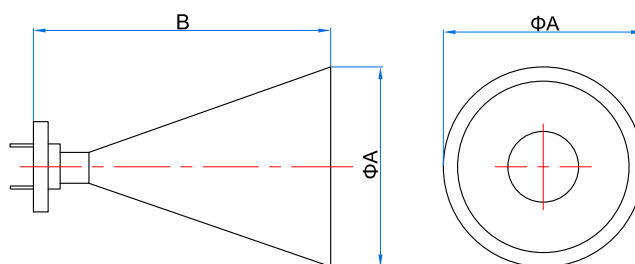
X: Gain in dB

Examples:

To order an Antenna, 28.3-38.8GHz, 18dB, C290, specify NCHA290-18.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
18dB	30 [1.181]	30 [1.181]
20dB	40 [1.575]	55 [2.165]
22dB	55 [2.165]	80 [3.15]
25dB	80 [3.15]	170 [6.693]

NCHA330

31.8~43GHz, C330

Features:
* Broadband

Applications:
* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency:	31.8~43GHz
Center Frequency:	37GHz
Gain:	18, 20, 22, 25dB
VSWR:	1.25 max.
3dB Beam Width:	23°, 17°, 12°, 9°

Mechanical

Interface: C330

How To Order

NCHA330-X

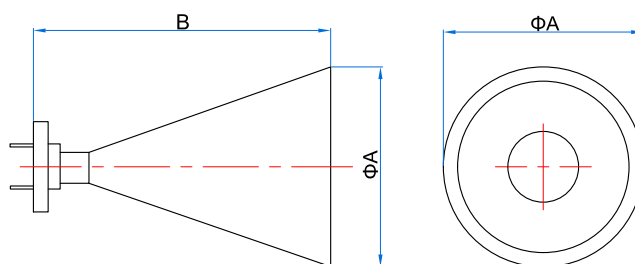
X: Gain in dB

Examples:

To order an Antenna, 31.8-43GHz, 18dB, C330, specify NCHA330-18.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
18dB	27 [1.063]	27 [1.063]
20dB	35 [1.378]	50 [1.969]
22dB	50 [1.969]	70 [2.756]
25dB	70 [2.756]	160 [6.299]

NCHA380

36.4~49.8GHz, C380

Features:

* Broadband

Applications:

* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency:	36.4~49.8GHz
Center Frequency:	43GHz
Gain:	18, 20, 22, 25dB
VSWR:	1.25 max.
3dB Beam Width:	23°, 17°, 12°, 9°

Mechanical

Interface: C380

How To Order

NCHA380-X

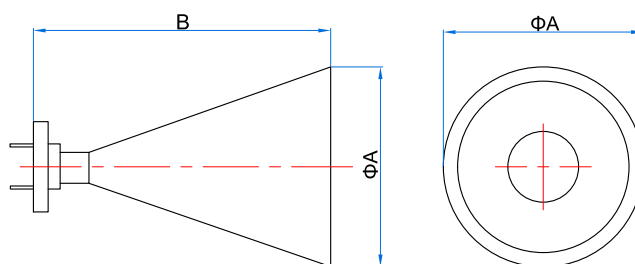
X: Gain in dB

Examples:

To order an Antenna, 36.4-49.8GHz, 18dB, C380, specify NCHA380-18.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
18dB	24 [.945]	25 [.984]
20dB	30 [1.181]	45 [1.772]
22dB	45 [1.772]	60 [2.362]
25dB	65 [2.559]	130 [5.118]

NCHA430

42.4~58.1GHz, C430

Features:
* Broadband

Applications:
* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency:	42.4~58.1GHz
Center Frequency:	50GHz
Gain:	18, 20, 22, 25dB
VSWR:	1.25 max.
3dB Beam Width:	23°, 17°, 12°, 9°

Mechanical

Interface: C430

How To Order

NCHA430-X

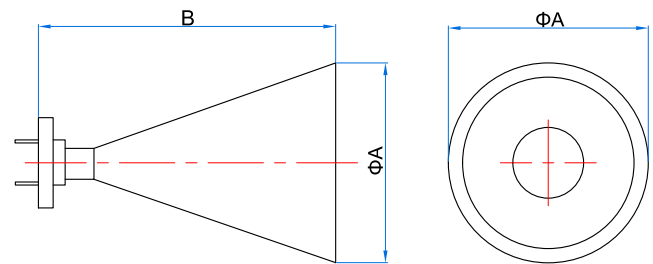
X: Gain in dB

Examples:

To order an Antenna, 42.4-58.1GHz, 18dB, C430, specify NCHA430-18.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
18dB	20 [.787]	20 [.787]
20dB	25 [.984]	40 [1.575]
22dB	40 [1.575]	55 [2.165]
25dB	55 [2.165]	120 [4.724]

NCHA495

46.3~63.5GHz, C495

Features:
* Broadband

Applications:
* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency:	46.3~63.5GHz
Center Frequency:	55GHz
Gain:	18, 20, 22, 25dB
VSWR:	1.25 max.
3dB Beam Width:	23°, 17°, 12°, 9°

Mechanical

Interface: C495

How To Order

NCHA495-X

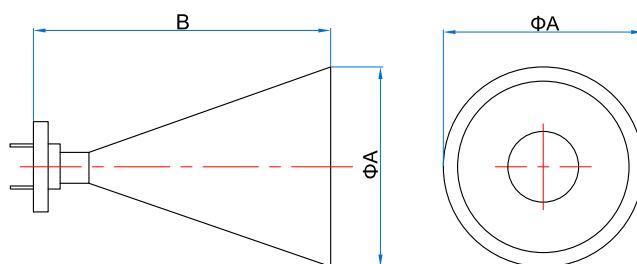
X: Gain in dB

Examples:

To order an Antenna, 46.3-63.5GHz, 18dB, C495, specify NCHA495-18.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
18dB	19 [.748]	20 [.787]
20dB	24 [.945]	35 [1.378]
22dB	35 [1.378]	50 [1.969]
25dB	50 [1.969]	110 [4.331]

NCHA580

56.6~77.5GHz, C580

Features:
* Broadband

Applications:
* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency:	56.6~77.5GHz
Center Frequency:	67GHz
Gain:	18, 20, 22, 25dB
VSWR:	1.25 max.
3dB Beam Width:	23°, 17°, 12°, 9°

Mechanical

Interface: C580

How To Order

NCHA580-X

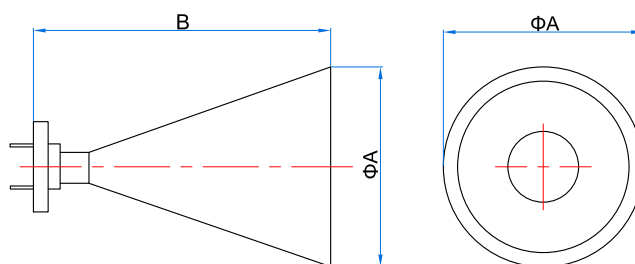
X: Gain in dB

Examples:

To order an Antenna, 56.6-77.5GHz, 18dB, C580, specify NCHA580-18.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
18dB	15 [.591]	16 [.63]
20dB	20 [.787]	30 [1.181]
22dB	30 [1.181]	40 [1.575]
25dB	40 [1.575]	85 [3.346]

NCHA660

63.5~87.2GHz, C660

Features:
* Broadband

Applications:
* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency:	63.5~87.2GHz
Center Frequency:	75GHz
Gain:	18, 20, 22, 25dB
VSWR:	1.25 max.
3dB Beam Width:	23°, 17°, 12°, 9°

Mechanical

Interface: C660

How To Order

NCHA660-X

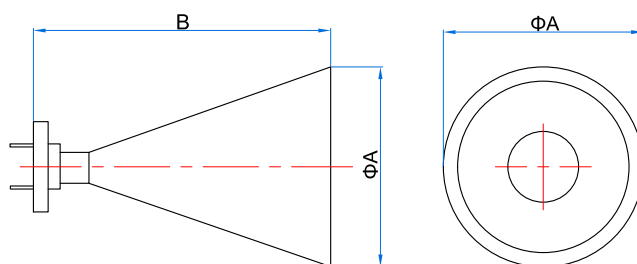
X: Gain in dB

Examples:

To order an Antenna, 63.5-87.2GHz, 18dB, C660, specify NCHA660-18.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
18dB	15 [.591]	15 [.591]
20dB	18 [.709]	26 [1.024]
22dB	25 [.984]	36 [1.417]
25dB	35 [1.378]	80 [3.15]

NCHA765

72.7~99.7GHz, C765

Features:

* Broadband

Applications:

* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency:	72.7~99.7GHz
Center Frequency:	86GHz
Gain:	18, 20, 22, 25dB
VSWR:	1.25 max.
3dB Beam Width:	23°, 17°, 12°, 9°

Mechanical

Interface: C765

How To Order

NCHA765-X

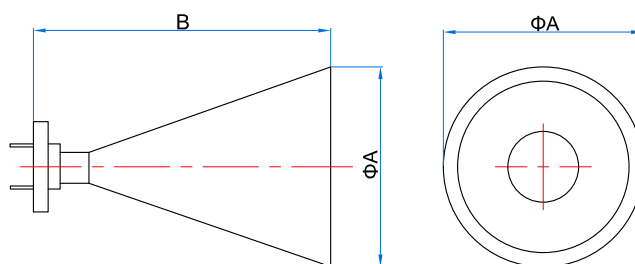
X: Gain in dB

Examples:

To order an Antenna, 72.7-99.7GHz, 18dB, C765, specify NCHA765-18.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
18dB	13 [.512]	13 [.512]
20dB	16 [.63]	23 [.906]
22dB	23 [.906]	35 [1.378]
25dB	32 [1.26]	70 [2.756]

NCHA890

84.8~116GHz, C890

Features:
* Broadband

Applications:
* Wireless
* Transceiver
* Laboratory Test
* Broadcast

Electrical

Frequency:	84.8~116GHz
Center Frequency:	100GHz
Gain:	18, 20, 22, 25dB
VSWR:	1.25 max.
3dB Beam Width:	23°, 17°, 12°, 9°

Mechanical

Interface: C890

How To Order

NCHA890-X

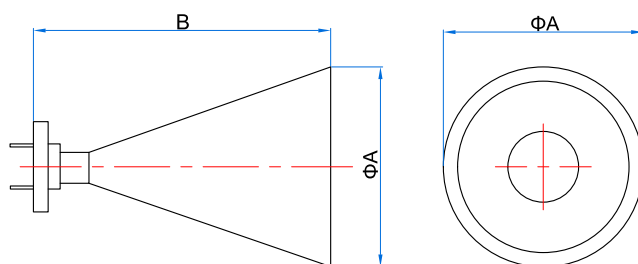
X: Gain in dB

Examples:

To order an Antenna, 84.8-116GHz, 18dB, C890, specify NCHA890-18.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Gain	A	B
18dB	11 [.433]	11 [.433]
20dB	15 [.591]	20 [.787]
22dB	20 [.787]	30 [1.181]
25dB	36 [1.417]	60 [2.362]