

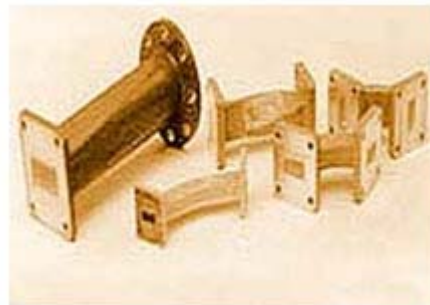
TRectangular Waveguide Bends

LOW VSWR
LOW INSERTION LOSS
PRECISION FABRICATION

CMI's Rectangular Waveguide Bends are useful for field and laboratory applications where lowest loss and SWR are required. The waveguide conforms to MIL-W-85. Bends may be used alone or in combination for systems packaging. Straights, Bends and Twists are normally supplied with UG cover flanges; however choke, CPR, CMR and other flanges may be requested. VSWR of Standard Waveguide models is 1.03 typical, 1.05 max. over the full waveguide band while insertion loss is essentially that of straight waveguide. Units are available in aluminum or copper. Finish is chromate conversion per MIL-C-5541, Class 3 for aluminum and corrosion resistant coatings for all others, painted with gray enamel.



*The Standard Model Numbers below are the most common parts ordered for size, material and flanges. However, these models can easily be altered to accommodate your needs by using the above Model # code system.



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Corry Micronics, Inc. One Plastics Rd. - Corry, PA 16407
(814) 664-7728 Fax (814) 664-4582 www.cormic.com

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90°E&H Bends Order Information

Typical Part #: WGSize – WEB Material-L1(in)xL2(in)-Flange1-Flange2

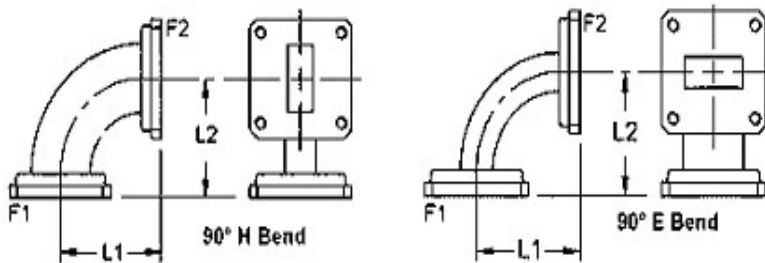
Basic Model#: _____

Material: A=Alum, B=Brass, C=Copper

Length 1 x Length 2: _____

Flange 1: 1=CPRG, 2=CPRF, 6=Cover, 7=Choke

Flange 2: 1=CPRG, 2=CPRF, 6=Cover, 7=Choke



Example:

CMI284-WEBA-8x8-6-6 is WR284 - 90° E bend Alum material - 8x8 - Cover flg - Cover flg

CMI284-WHBA-8x8-6-6 is WR284 - 90° H bend Alum material - 8x8 - Cover flg - Cover flg

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PRODUCT SPECIFICATION

Standard Models			
WG Size	Freq GHz	90 Degree E Bend Standard Model No*	90 Degree H Bend Standard Model No*
WR340	2.20 - 3.30	340-WEBA-8x8-2-2	340-WHBA-10x10-2-2
WR284	2.60 - 3.95	284-WEBA-6x6-6-6	284-WHBA-6x6-6-6
WR229	3.30 - 4.90	229-WEBB-4x4-2-2	229-WHBB-4x4-2-2
WR187	3.95 - 5.85	187-WEBA-3x3-6-6	187-WHBA-3x3-6-6
WR159	4.09 - 7.05	159-WEBB-2.5x2.5-2-2	159-WHBB-2.5x2.5-2-2
WR137	5.85 - 8.20	137-WEBB-2.5x2.5-2-2	137-WHBB-2.5x2.5-2-2
WR112	7.05 - 10.0	112-WEBB-2x2-6-6	112-WHBB-2x2-6-6
WR102	7.00 - 11.0	102-WEBA-2x2-6-6	102-WHBA-2x2-6-6
WR90	8.20 - 12.4	90-WEBA-2x2-6-6	90-WHBA-2x2-6-6
WR75	10.0 - 15.0	75-WEBB-1.75x1.75-6-6	75-WHBB-1.75x1.75-6-6
WR62	12.4 - 18.0	62-WEBB-1.75x1.75-6-6	62-WHBB-1.75x1.75-6-6
WR51	15.0 - 22.0	51-WEBB-1.5x1.5-6-6	51-WHBB-1.5x1.5-6-6
WR42	18.0 - 26.5	42-WEBB-1x1-6-6	42-WHBB-1x1-6-6
WR34	22.0 - 33.0	34-WEBB-1x1-6-6	34-WHBB-1x1-6-6
WR28	26.5 - 40.0	28-WEBB-1x1-6-6	28-WHBB-1x1-6-6

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30°, 45° & 60° H Bends

Typical Part#: **WGSize-HB30 Material -Flange1 -Flange2**

Basic Model #:

Material: A=Alum, B=Brass, C=Copper

Flange 1: 1=CPRG, 2=CPRF, 6=Cover, 7=Choke

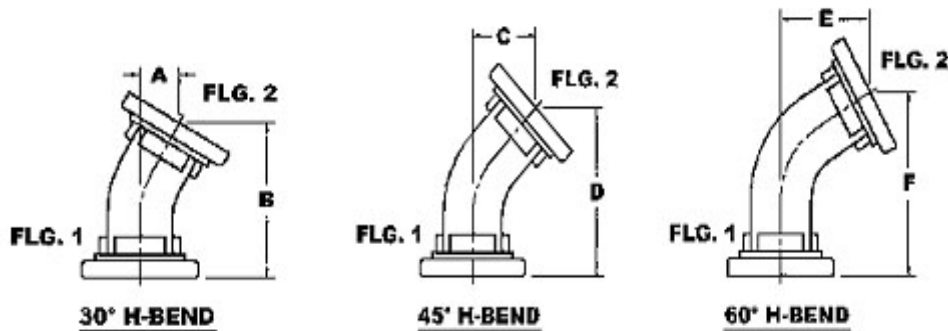
Flange 2: 1=CPRG, 2=CPRF, 6=Cover, 7=Choke

Example:

CMI650-HB30A-2-2 is a WRCMI650 - 30°H bend Alum material - CPRF flange - CPRF flange

CMI650-HB45A-2-2 is a WRCMI650 - 45°H bend Alum material - CPRF flange - CPRF flange

CMI650-HB60A-2-2 is a WRCMI650 - 60°H bend Alum material - CPRF flange - CPRF flange



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Standard Models										
WG Size	Freq GHz	30 Degree H Bend			45 Degree H Bend			60 Degree H Bend		
		Standard Model No*	A (in)**	B (in)**	Standard Model No*	C (in)**	D (in)**	Standard Model No*	E (in)**	F (in)**
WR340	2.20 - 3.30	CMI340-HB30A-2-2	2.05	7.65	CMI340-HB45A-2-2	4.39	10.58	CMI340-HB60A-2-2	5.26	9.15
WR284	2.60 - 3.95	CMI284-HB30A-6-6	1.50	5.60	CMI284-HB45A-6-6	3.38	8.15	CMI284-HB60A-6-6	3.45	6.00
WR229	3.30 - 4.90	CMI229-HB30B-2-2	1.48	5.50	CMI229-HB45B-2-2	2.84	6.84	CMI229-HB60B-2-2	3.32	5.78
W187	3.95 - 5.85	CMI187-HB30A-6-6	1.30	4.85	CMI187-HB45A-6-6	2.12	5.12	CMI187-HB60A-6-6	2.72	4.73
WR159	4.09 - 7.05	CMI159-HB30B-2-2	1.30	4.85	CMI159-HB45B-2-2	1.77	4.27	CMI159-HB60B-2-2	2.63	4.58
WR137	5.85 - 8.20	CMI137-HB30B-2-2	1.13	4.20	CMI137-HB45B-2-2	1.77	4.27	CMI137-HB60B-2-2	2.16	3.75
WR112	7.05 - 10.0	CMI112-HB30B-6-6	1.10	4.10	CMI112-HB45B-6-6	1.41	3.41	CMI112-HB60B-6-6	1.98	3.45
WR102	7.00 - 11.0	CMI102-HB30A-6-6	1.03	3.82	CMI102-HB45A-6-6	1.41	3.41	CMI102-HB60A-6-6	1.81	3.15
WR90	8.20 - 12.4	CMI90-HB30A-6-6	1.00	3.73	CMI90-HB45A-6-6	1.41	3.41	CMI90-HB60A-6-6	1.72	3.00
WR75	10.0 - 15.0	CMI75-HB30B-6-6	1.00	3.73	CMI75-HB45B-6-6	1.24	2.99	CMI75-HB60B-6-6	1.72	3.00
WR62	12.4 - 18.0	CMI62-HB30B-6-6	0.95	3.54	CMI62-HB45B-6-6	1.24	2.99	CMI62-HB60B-6-6	1.64	2.85
WR51	15.0 - 22.0	CMI51-HB30B-6-6	0.88	3.26	CMI51-HB45B-6-6	1.06	2.56	CMI51-HB60B-6-6	1.47	2.55
WR42	18.0 - 26.5	CMI42-HB30B-6-6	0.80	2.98	CMI42-HB45B-6-6	0.71	1.71	CMI42-HB60B-6-6	1.25	2.18
WR28	26.5 - 40.0	CMI28-HB30B-6-6	0.75	2.80	CMI28-HB45B-6-6	0.71	1.71	CMI28-HB60B-6-6	1.12	1.95

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30°, 45° & 60°E Bends

Typical Part#: **WGSize-EB30 Material -Flange1 -Flange2**

Basic Model #:

Material: A=Alum, B=Brass, C=Copper

Flange 1: 1=CPRG, 2=CPRF, 6=Cover, 7=Choke

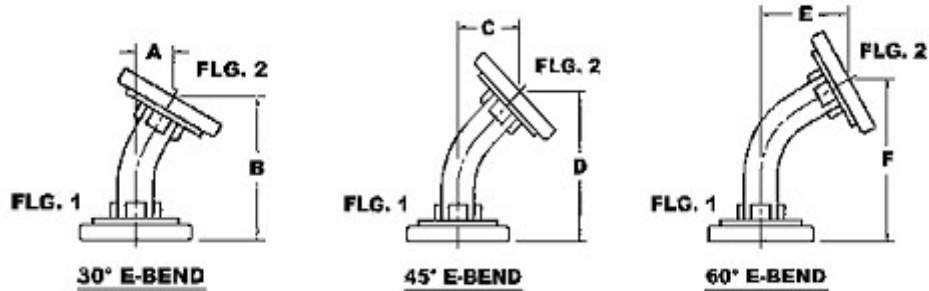
Flange 2: 1=CPRG, 2=CPRF, 6=Cover, 7=Choke

Example:

CMI650-EB30A-2-2 is a WR650 - 30°E bend Alum material - CPRF flange - CPRF flange

CMI650-EB45A-2-2 is a WR650 - 45°E bend Alum material - CPRF flange - CPRF flange

CMI650-EB60A-2-2 is a WR650 - 60°E bend Alum material - CPRF flange - CPRF flange



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Standard Models										
WG Size	Freq GHz	30 Degree E Bend			45 Degree E Bend			60 Degree E Bend		
		Standard Model No*	A (in)**	B (in)**	Standard Model No*	C (in)**	D (in)**	Standard Model No*	E (in)**	F (in)**
WR340	2.20 - 3.30	CMI340-EB30A-2-2	1.50	5.60	CMI340-EB45A-2-2	4.18	10.07	CMI340-EB60A-2-2	4.83	8.40
WR284	2.60 - 3.95	CMI284-EB30A-6-6	1.43	5.32	CMI284-EB45A-6-6	3.38	8.15	CMI284-EB60A-6-6	3.10	5.40
WR229	3.30 - 4.90	CMI229-EB30B-2-2	1.40	5.22	CMI229-EB45B-2-2	2.77	6.68	CMI229-EB60B-2-2	3.02	5.25
WR187	3.95 - 5.85	CMI187-EB30A-6-6	1.25	4.66	CMI187-EB45A-6-6	2.12	5.12	CMI187-EB60A-6-6	2.46	4.28
WR159	4.09 - 7.05	CMI159-EB30B-2-2	1.23	4.57	CMI159-EB45B-2-2	1.77	4.27	CMI159-EB60B-2-2	2.46	4.28
WR137	5.85 - 8.20	CMI137-EB30B-2-2	1.08	4.01	CMI137-EB45B-2-2	1.77	4.27	CMI137-EB60B-2-2	1.98	3.45
WR112	7.05 - 10.0	CMI112-EB30B-6-6	1.05	3.92	CMI112-EB45B-6-6	1.41	3.41	CMI112-EB60B-6-6	1.81	3.15
WR102	7.00 - 11.0	CMI102-EB30A-6-6	1.00	3.73	CMI102-EB45A-6-6	1.41	3.41	CMI102-EB60A-6-6	1.72	3.00
WR90	8.20 - 12.4	CMI90-EB30A-6-6	0.95	3.54	CMI90-EB45A-6-6	1.41	3.41	CMI90-EB60A-6-6	1.64	2.85
WR75	10.0 - 15.0	CMI75-EB30B-6-6	0.98	3.64	CMI75-EB45B-6-6	1.24	2.99	CMI75-EB60B-6-6	1.68	2.93
WR62	12.4 - 18.0	CMI62-EB30B-6-6	0.93	3.45	CMI62-EB45B-6-6	1.24	2.99	CMI62-EB60B-6-6	1.55	2.70
WR51	15.0 - 22.0	CMI51-EB30B-6-6	0.88	3.26	CMI51-EB45B-6-6	1.06	2.56	CMI51-EB60B-6-6	1.38	2.40
WR42	18.0 - 26.5	CMI42-EB30B-6-6	0.80	2.98	CMI42-EB45B-6-6	0.71	1.71	CMI42-EB60B-6-6	1.16	2.03
WR28	26.5 - 40.0	CMI28-EB30B-6-6	0.CMI75	2.80	CMI28-EB45B-6-6	0.71	1.71	CMI28-EB60B-6-6	1.12	1.95

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90°E&H Miter Bends

Typical Part#: WGSize-EB30 Material -Flange1 -Flange2

Basic Model #: _____

Material: A=Alum, B=Brass, C=Copper

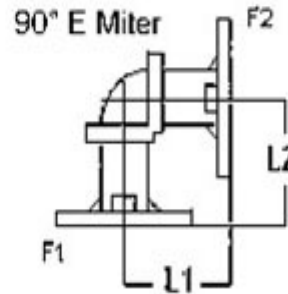
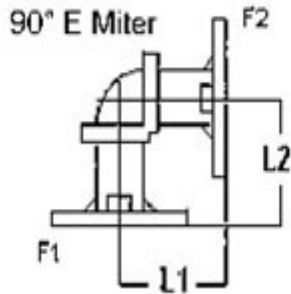
Flange 1: 1=CPRG, 2=CPRF, 6=Cover, 7=Choke

Flange 2: 1=CPRG, 2=CPRF, 6=Cover, 7=Choke

Example:

CMI284-MEBA-4x4-6-6 is WR284 - 90° E miter Alum material - 4x4 - Cover flg - Cover flg

CMI284-MHBA-4x4-6-6 is WR284 - 90° H miter Alum material - 4x4- Cover flg - Cover flg



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PRODUCT SPECIFICATION

Standard Models			
WG Size	Freq GHz	90 Degree E Miter Bend Standard Model No*	90 Degree H Miter Bend Standard Model No*
WR650	1.00 - 1.70	CMI650-MEBA-4x4-2-2	CMI650-MHBA-5x5-2-2s
WR430	1.70 - 2.60	CMI430-MEBA-3x3-2-2	CMI430-MHBA-4x4-2-2
WR284	2.60 - 3.95	CMI284-MEBA-3.75x3.75-6-6	CMI284-MHBA-4x4-6-6
WR229	3.30 - 4.90	CMI229-MEBB-2.21x2.21-2-2	CMI229-MHBB-3x3-2-2
WR187	3.95 - 5.85	CMI187-MEBA-1.87x1.87-6-6	CMI187-MHBA-3x3-6-6
WR159	4.09 - 7.05	CMI159-MEBB-1.75x1.75-2-2	CMI159-MHBB-3x3 -2-2
WR137	5.85 - 8.20	CMI137-MEBB-1.82x1.82-2-2	CMI137-MHBB-3x3-2-2
WR112	7.05 - 10.0	CMI112-MEBB-1.6x1.6-6-6	CMI112-MHBB-2x2-6-6
WR102	7.00 - 11.0	CMI102-MEBA-1.47x1.47-6-6	CMI102-MHBA-2x2-6-6
WR90	8.20 - 12.4	CMI90-MEBA-1.34x1.34-6-6	CMI90-MHBA-2x2-6-6
WR75	10.0 - 15.0	CMI75-MEBB-1.16x1.16-6-6	CMI75-MHBB-2x2-6-6
WR62	12.4 - 18.0	CMI62-MEBB-.88x.88-6-6	CMI62-MHBB-1.5x1.5-6-6
WR51	15.0 - 22.0	CMI51-MEBB-.95x.95-6-6	CMI51-MHBB-1.5x1.5-6-6
WR42	18.0 - 26.5	CMI42-MEBB-.77x.77-6-6	CMI42-MHBB-1x1-6-6
WR28	26.5 - 40.0	CMI28-MEBB-.77x.77-6-6	CMI28-MHBB-1x1-6-6

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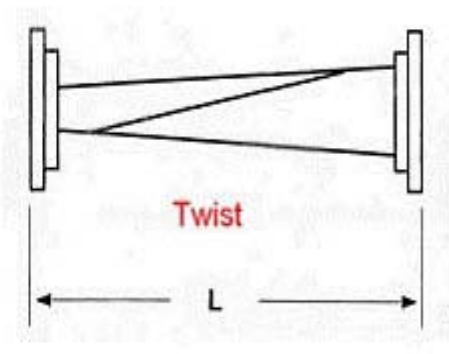
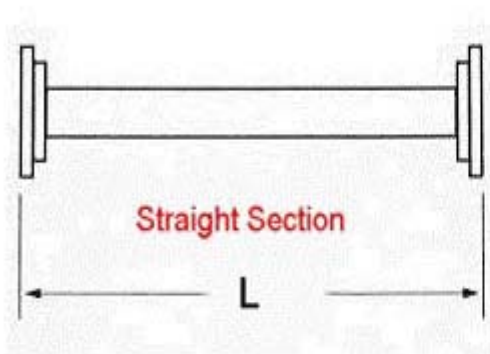
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Straight & Twist Sections

CMI's Straight Sections of Rectangular Waveguide are useful for field and laboratory applications where lowest loss and VSWR are required. The waveguide conforms to MIL-W-85. Up to 12 feet long Straight Sections can be supplied.

VSWR of Standard Waveguide models is 1.05 typical, 1.08 max. over the full waveguide band, while insertion loss is essentially that of straight waveguide. Units are available in aluminum or copper. Finish is chromate conversion per MIL-C-5541, Class 3 for aluminum and corrosion resistant coatings for all others, painted with gray enamel.



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Typical Part #: _____

Basic Model#: _____

Material: _____
A=Alum, B=Brass, C=Copper

L (in): _____

Flange 1: _____
1=CPRG, 2=CPRF, 6=Cover, 7=Choke

Flange 2: _____
1=CPRG, 2=CPRF, 6=Cover, 7=Choke

Example:

CMI340-TA-15-6-6 is WR340 twist Aluminum material - 15(in) - Cover Flg - Cover Flg

CMI340-SA-12-6-6 is WR340 straight section Aluminum material - 12(in) - Cover Flg - Cover Flg

Standard Models			
WG Size	Freq GHz	90 Degree Twist Model No*	Straight Sections Model No*
WR650	1.00 - 1.70	CMI650-TA-24-2-2	CMI650-SA-12-2-2
WR430	1.70 - 2.60	CMI430-TA-16-2-2	CMI430-SA-12-2-2
WR340	2.20 - 3.30	CMI340-TA-15-2-2	CMI340-SA-12-2-2
WR284	2.60 - 3.95	CMI284-TA-12-6-6	CMI284-SA-10-6-6
WR229	3.30 - 4.90	CMI229-TB-12-2-2	CMI229-SB-6-2-2
WR187	3.95 - 5.85	CMI187-TA-8-6-6	CMI187-SA-6-6-6
WR159	4.09 - 7.05	CMI159-TB-6-2-2	CMI159-SB-6-2-2
WR137	5.85 - 8.20	CMI137-TB-6-2-2	CMI137-SB-6-2-2
WR112	7.05 - 10.0	CMI112-TB-6-6-6	CMI112-SB-6-6-6
WR102	7.00 - 11.0	CMI102-TA-6-6-6	CMI102-SA-6-6-6
WR90	8.20 - 12.4	CMI90-TA-5-6-6	CMI90-SA-6-6-6
WR75	10.0 - 15.0	CMI75-TB-4-6-6	CMI75-SB-6-6-6
WR62	12.4 - 18.0	CMI62-TB-4-6-6	CMI62-SB-6-6-6
WR51	15.0 - 22.0	CMI51-TB-4-6-6	CMI51-SB-6-6-6
WR42	18.0 - 26.5	CMI42-TB-3-6-6	CMI42-SB-3-6-6
WR34	22.0 - 33.0	CMI34-TB-3-6-6	CMI34-SB-3-6-6
WR28	26.5 - 40.0	CMI28-TB-3-6-6	CMI28-SB-3-6-6

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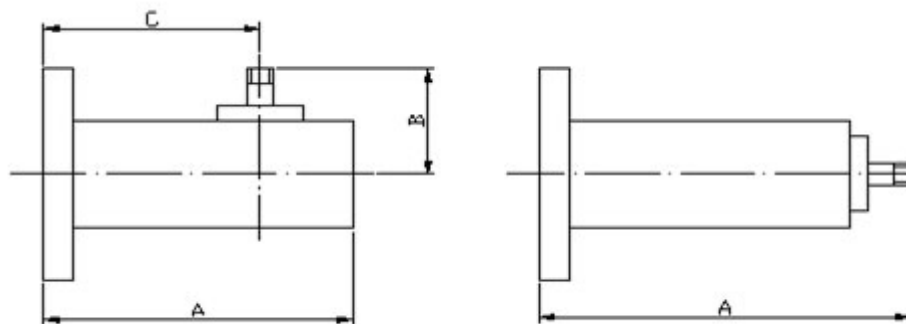
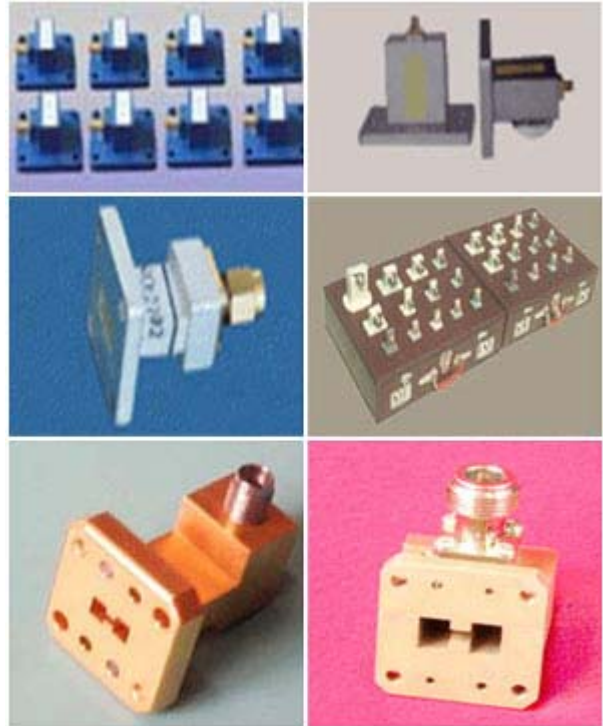
Standard Rectangular Waveguide-to-Coaxial Adapters

LOWEST VSWR
LOW INSERTION LOSS
NARROW AND BROAD BANDWIDTHS

CMI offers a wide range of Adapters for specialized applications requiring non-standard rectangular waveguides and/or frequency bands. They allow transmission of power in either direction with the lowest possible reflection. This is achieved by using broadband matching techniques. High power adapters are available up to the power rating of the connector requested.

Requirements for other bands, waveguide heights and in-line adapters can also be satisfied. Assemblies are furnished with aluminum housing. Finish is chromate conversion per MIL-C-5541, Class3, painted with gray epoxy enamel.

The Standard Model Numbers above are the most common parts ordered for size, material and flange. However, these models can easily be altered to accommodate your needs by using the above Model # code system. Standard Connectors are SMA and Type-N, Connectors such as SC, TNC, and 7/16 are available. Consult the factory for details.



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Typical Part #: WGSize - SMA/N Material - Flange

Basic Model#:

Material: A=Alum, B=Brass

Flange: 1=CPRG, 2=CPRF, 6=Cover, 7=Choke

Example:

CMI187-SMAA-6 is WR187-SMA(F)WG-Coax Adapter, Aluminum Material, Cover Flange

Standard Waveguide to Coax Adapters

WG Size	Freq GHz	SMA (F) Model No.*	Type N (F) Model No.*	VSWR (Max.)	Outline A X B X C (mm)
WR650	1.12 - 1.70	CMI650-SMAA-2	CMI650-NA-2	1.4	170 x 70 x 46
WR430	1.70 - 2.60	CMI430- SMAA-2	CMI430-NA-2	1.4	113 x 56 x 33
WR340 x 28	2.20 - 3.30	CMI340- SMAA-2	CMI340-NA-2	1.25	93 x 51
WR284	2.60 - 3.95	CMI84- SMAA-6	CMI284-NA-6	1.25	57 x 46 x 19
WR229	3.30 - 4.90	CMI229- SMAB-2	CMI229-NB-2	1.25	
WR187	3.95 - 5.85	CMI187- SMAA-6	CMI187-NA-6	1.25	57 x 40 x 23
WR159	4.90 - 7.05	CMI159- SMAB-2	CMI159-NB-2	1.25	51 x 38 x 15.5
WR137	5.85 - 8.20	CMI137- SMAB-2	CMI137-NB-2	1.25	47 x 37 x 16
WR112	7.05 - 10.0	CMI112- SMAB-6	CMI112-NB-6	1.25	42 x 35 x 18
WR90	8.20 - 12.4	CMI90- SMAA-6	CMI90-NA-6	1.25	32 x 30 x 8
WR75	10.0 - 15.0	CMI75- SMAB-6	CMI75-NB-6	1.25	39 x 17 x 9
WR62	12.4 - 18.0	CMI62- SMAB-6	CMI62-NB-6	1.25	27 x 18 x 10
WR51	15.0 - 22.0	CMI51- SMAB-6	N/A	1.50	30 x 14 x 11
WR42	18.0 - 26.5	CMI42- KB-6	N/A	1.80	28 x 16 x 8.5
WR34	22.0 - 33.0	CMI34-KB-6**	N/A	1.25	
WR28	26.5 - 40.0	CMI28-KA-6**	N/A	1.25	

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Typical Part #:

WGSize - SMA/N

Material - Flange

Basic Model#:

Material: A=Alum, B=Brass

Flange: 1=CPRG, 2=CPRF, 6=Cover, 7=Choke

End launch Waveguide to Coax Adapters - SMA & Type-N

WG Size	Frequency Range (GHz)	Model No.	VSWR (Max.)	Connectors	Length (mm)
WR284	2.60 ~ 3.95	CMI284-NA-2	1.25	N	90
WR229	3.30 ~ 4.90	CMI229-NA-2	1.25	N	
WR187	3.95 ~ 5.85	CMI187-NA-2	1.25	N	
WR159	4.90 ~ 7.05	CMI159-NA-2	1.25	N	79.6
WR137	5.85 ~ 8.20	CMI137-SMAA-2	1.25	SMA	64.5
WR137	5.90 ~ 8.20	CMI137-NA-2	1.25	N	31.6
WR112	7.05 ~ 10.0	CMI112-NA-2	1.25	N	
WR112	7.05 ~ 10.0	CMI112-SMAA-2	1.25	SMA	
WR90	8.20 ~ 12.4	CMI90-NB-2	1.25	N	61.6
WR90	8.20 ~ 12.4	CMI90-SMAB-2	1.25	SMA	53.5
WR75	10.0 ~ 15.0	CMI75-NB-2	1.25	N	72
WR75	10.0 ~ 15.0	CMI75-SMAB-2	1.25	SMA	38.5
WR62	12.4 ~ 18.0	CMI62-NB-2	1.25	N	
WR62	12.4 ~ 18.0	CMI62-SMAB-2	1.25	SMA	32
WR51	15.0 ~ 22.0	CMI51-SMAB-2	1.5	SMA	33.5
WR42	18.0 ~ 26.5	CMI42-KB-2	1.5	K	
WR34	22.0 ~ 33.0	CMI34-KB-2	1.8	K	
WR28	26.5 ~ 40.0	CMI28-KB-2	1.8	K	

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Double Ridge Waveguide to Coax Adapters

WG Size	Freq GHz	SMA Model No.*	Type N Model No.*	VSWR max
WRD180	7.5 - 18.0	CMID180-SMAB-2 **	CMID180-NB-2	-
WRD750	7.5 - 18.0	CMID750- SMAB-2	CMID750-NB-2	1.5
WRD650	6.5 - 18.0	CMID650- SMAB-2	CMID650- NB-2	1.5
WRD580	5.8 - 16.0	CMID580- SMAB-2	CMID580- NB-2	1.5
WRD475	4.75 - 11.0	CMID475- SMAB-2	CMID475- NB-2	1.5

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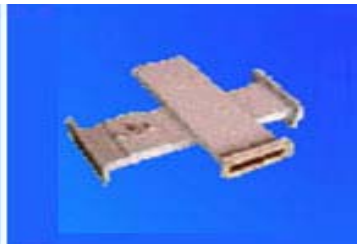
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Rectangular Waveguide Cross Guide Couplers

**LOWEST VSWR
LOW INSERTION LOSS
NARROW AND BROAD BANDWIDTHS**

CMI's Cross Guide Couplers have specially-designed coupling apertures that produce flat coupling over the full waveguide frequency band. The couplers are symmetrical four-port devices; either arm may be used as the main line. They are also available with built-in terminations, integral coaxial adapters, and terminated dual secondary arms (dual directional couplers). These rugged, moderate-directivity couplers are ideal where the high directivity of the longer broad-wall multi-hole couplers is not required. The units are well-suited for many microwave applications including injection, reflection measurement, attenuation, and isolation. And because of their compactness and simplicity of construction, they have found wide acceptance in production applications. Assemblies are furnished with an aluminum or brass housing. Finish is chromate conversion per MIL-C-5541, Class 3, painted with gray epoxy enamel.



Coupling: 20, 30, 40, 50 dB

Directivity: typically 18 dB min

Coupling Mean: ± 4.0 dB

Frequency Sensitivity:

20 = ± 1.2 dB max.

20 = ± 1.2 dB max.

30 = ± 1.0 dB max.

40 = ± 0.8 dB max.

50 = ± 0.6 dB max.

VSWR:

Waveguide Ports 1.05 max.

Coaxial Ports std.; 1.25, 1.10, 1.15 avail.

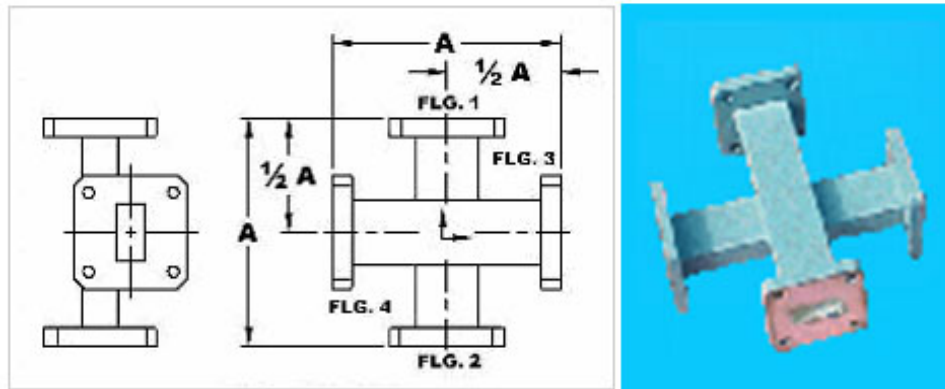
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The Model numbers listed below are the most common model numbers for size, material, coupling, and flanges however; these models can easily be altered to accommodate customer needs by following the Model # code system. In addition the customer must choose the coupling value appropriate for application (20,30dB, 40dB, or 50dB) and insert it in the model number where dB is listed.

Crossguide Directional Coupler- 4 Waveguide Ports



Typical Part #:	WGSize-4P	Material	-Coupling	-Flange1	-Flange2	-Flange3	-Flange4
Basic Model#:							
Material:	A=Alum, B=Brass						
Coupling (dB):	30, 40, or 50dB						
Flange1:	1=CPRG, 2=CPRF, 6=Cover, 7=Choke						
Flange2:	1=CPRG, 2=CPRF, 6=Cover, 7=Choke						
Flange3:	1=CPRG, 2=CPRF, 6=Cover, 7=Choke						
Flange4:	1=CPRG, 2=CPRF, 6=Cover, 7=Choke						

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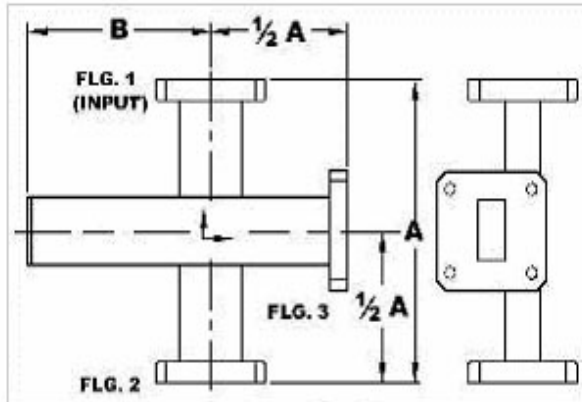
Standard Models				
WG Size	Freq GHz	Standard Model No.*	Dim A (Inches) Dim	B (Inches)
WR430	1.70 - 2.60	CMI430-3PA-dB-2-2-2	7.50	8.00
WR284	2.60 - 3.95	CMI284-3PA-dB-6-6-6	7.50	5.00
WR229	3.30 - 4.90	CMI229-3PB-dB-2-2-2	7.00	4.75
WR187	3.95 - 5.85	CMI187-3PA-dB-6-6-6	6.50	4.50
WR159	4.90 - 7.05	CMI159-3PB-dB-2-2-2	6.00	4.00
WR137	5.85 - 8.20	CMI137-3PB-dB-2-2-2	6.00	4.00
WR112	7.05 - 10.0	CMI112-3PB-dB-6-6-6	4.20	3.00
WR90	8.20 - 12.4	CMI90-3PA-dB-6-6-6	4.00	2.75
WR75	10.0 - 15.0	CMI75-3PB-dB-6-6-6	3.75	2.50
WR62	12.4 - 18.0	CMI62-3PB-dB-6-6-6	3.50	2.37
WR51	15.0 - 22.0	CMI51-3PB-dB-6-6-6	3.10	2.25
WR42	18.0 - 26.5	CMI42-3PB-dB-6-6-6	2.20	1.50
WR34	22.0 - 33.0	CMI34-3PB-dB-6-6-6	2.20	1.50
WR28	26.5 - 40.0	CMI28-3PB-dB-6-6-6	2.00	1.50

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Crossguide Directional Coupler- 3 Waveguide Ports



Typical Part #: WGSize-3P Material -Coupling -Flange1 -Flange2 -Flange3

Basic Model#: _____

Material: A=Alum, B=Brass _____

Coupling (dB): 30, 40, or 50dB _____

Flange1: 1=CPRG, 2=CPRF, 6=Cover, 7=Choke _____

Flange2: 1=CPRG, 2=CPRF, 6=Cover, 7=Choke _____

Flange3: 1=CPRG, 2=CPRF, 6=Cover, 7=Choke _____

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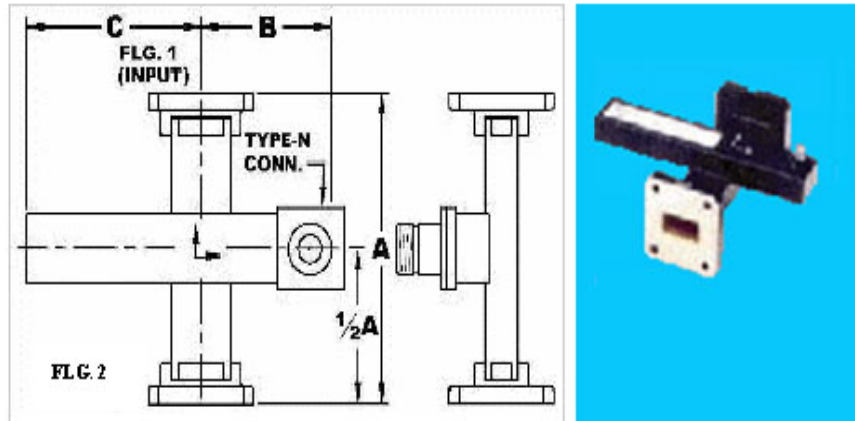
Standard Models				
WG Size	Freq GHz	Standard Model No.*	Dim A (Inches) Dim	B (Inches)
WR430	1.70 - 2.60	CMI430-3PA-dB-2-2-2	7.50	8.00
WR284	2.60 - 3.95	CMI284-3PA-dB-6-6-6	7.50	5.00
WR229	3.30 - 4.90	CMI229-3PB-dB-2-2-2	7.00	4.75
WR187	3.95 - 5.85	CMI187-3PA-dB-6-6-6	6.50	4.50
WR159	4.90 - 7.05	CMI159-3PB-dB-2-2-2	6.00	4.00
WR137	5.85 - 8.20	CMI137-3PB-dB-2-2-2	6.00	4.00
WR112	7.05 - 10.0	CMI112-3PB-dB-6-6-6	4.20	3.00
WR90	8.20 - 12.4	CMI90-3PA-dB-6-6-6	4.00	2.75
WR75	10.0 - 15.0	CMI75-3PB-dB-6-6-6	3.75	2.50
WR62	12.4 - 18.0	CMI62-3PB-dB-6-6-6	3.50	2.37
WR51	15.0 - 22.0	CMI51-3PB-dB-6-6-6	3.10	2.25
WR42	18.0 - 26.5	CMI42-3PB-dB-6-6-6	2.20	1.50
WR34	22.0 - 33.0	CMI34-3PB-dB-6-6-6	2.20	1.50
WR28	26.5 - 40.0	CMI28-3PB-dB-6-6-6	2.00	1.50

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Crossguide Directional Coupler- 2 Waveguide Ports 1 Type N/SMA (F) Coax Port



Typical Part #:

WGSize-2PN/S Material -Coupling -Flange1 -Flange2

Basic Model#:				
Material:	A=Alum, B=Brass			
Coupling (dB):	30, 40, or 50dB			
Flange1:	1=CPRG, 2=CPRF, 6=Cover, 7=Choke			
Flange2:	1=CPRG, 2=CPRF, 6=Cover, 7=Choke			

Example:

CMI187-2PNA-40-6-6 is a WR187 -2 WG port N connector Alum mat'l -40dB -Cover Flg -Cover Flg

CMI187-2PSA-40-6-6 is a WR187 -2 WG port SMA connector Alum mat'l -40dB -Cover Flg -Cover Flg

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Standard Models					
WG Size	Freq GHz	Standard Model No.*	Dim A (Inches)	Dim B (Inches)	Dim C (Inches)
WR430	1.70 - 2.60	CMI430-2PN/SA-dB-2-2	7.50	5.00	8.00
WR284	2.60 - 3.95	CMI284-2PN/SA-dB-6-6	7.50	3.75	5.00
WR229	3.30 - 4.90	CMI229-2PN/SB-dB-2-2	7.00	3.50	4.75
WR187	3.95 - 5.85	CMI187-2PN/SA-dB-6-6	6.50	3.25	4.50
WR159	4.90 - 7.05	CMI159-2PN/SB-dB-2-2	6.00	3.00	4.00
WR137	5.85 - 8.20	CMI137-2PN/SB-dB-2-2	6.00	3.00	4.00
WR112	7.05 - 10.0	CMI112-2PN/SB-dB-6-6	4.20	2.10	3.00
WR90	8.20 - 12.4	CMI90-2PN/SA-dB-6-6	4.00	2.00	2.75
WR75	10.0 - 15.0	CMI75-2PN/SB-dB-6-6	3.75	1.87	2.50
WR62	12.4 - 18.0	CMI62-2PN/SB-dB-6-6	3.50	1.75	2.37

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Rectangular Waveguide Broad-Wall Multi-Hole Directional Couplers

HIGH DIRECTIVITY
FLAT COUPLING
WAVEGUIDE OR COAXIAL PORTS

These directional couplers consist of rectangular waveguide primary and secondary lines with a common broad wall where high directivity coupling is achieved over the full waveguide band by a Tchebyscheff multi-hole coupling structure and a precision termination in the secondary arm. Waveguide cover flanges are provided on the main line while secondary lines are available with either cover flanges or coaxial connectors. Both single directional (160 Series) and dual directional (200 Series) couplers have minimum size consistent with electrical performance. These couplers are ideal in reflectometer set-ups to measure VSWR's as low as 1.04:1 over full waveguide bands. They are also well suited as samplers in leveling loops or as power dividers and combiners. Finish is chromate conversion per MIL-C-5541, Class 3 for aluminum, and corrosion-resistant coatings for all others when specified, painted with gray epoxy enamel.



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Specifications:

Directivity: 35dB Min

VSWR: 1.05 Max. Main Line

Coupling: 10, 20, 30, 40, 50 dB

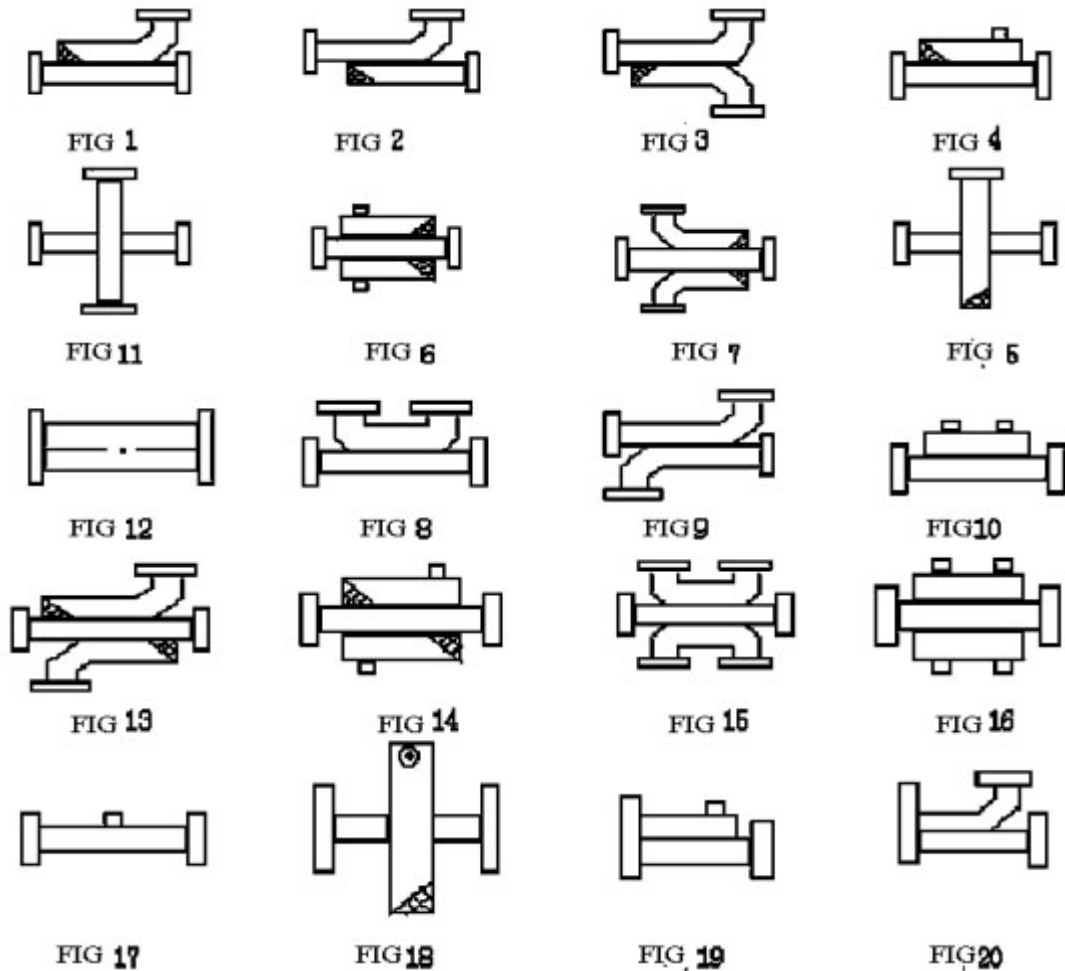
1.10 Max, Waveguide Secondary

Coupling: ± 0.4 dB

1.35 Max, Coaxial Secondary

Frequency Sensitivity: ± 0.5 dB Max.

Except the standard couplers, customer can select any one of the configurations as following:

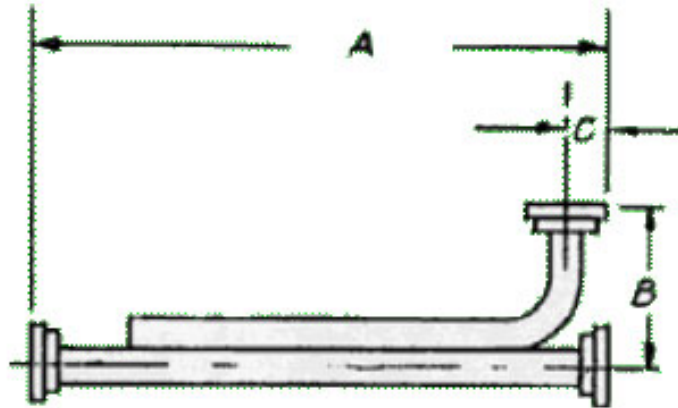


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Standard Waveguide Multi-Hole Directional Couplers



Code system

Typical part:

112-BW-A-20-2-2-2

WAVEGUIDE SIZE:						
BASIC MODEL#:						
MATERIAL:	A=ALUMINUM	B=COPPER/BRASS				
COUPLING: (dB)	3, 6, 10, 20, 30, 40	STD.				
FLANGE 1:	1=CPRG	2=CPRF	6=COVER	7=CHOKE		
FLANGE 2:	1=CPRG	2=CPRF	6=COVER	7=CHOKE		
FLANGE 3:	1=CPRG	2=CPRF	6=COVER	7=CHOKE		

Example: P/N CMI112-BW-20-2-2-2 is WR112 Coupler, Aluminum material, 20dB coupling, CPRF flanges

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Multi-Hole Directional Coupler - 3 Waveguide Port

WG Size	Freq GHz	Model No.*	Dimensions		
			A	B	C
WR284	2.60 - 3.95	CMI284-BW-dB-6-6-6	50.25	9.18	2.66
WR229	3.30 - 4.90	CMI229-BW-dB-2-2-2	42.00	6.81	1.84
WR187	3.95 - 5.85	CMI187-BW-dB-6-6-6	34.62	6.44	1.81
WR159	4.90 - 7.05	CMI159-BW-dB-2-2-2	32.50	5.25	1.56
WR137	5.85 - 8.20	CMI137-BW-dB-2-2-2	26.50	3.06	1.56
WR112	7.05 - 10.0	CMI112-BW-dB-6-6-6	18.62	3.06	1.56
WR90	8.20 - 12.4	CMI90-BW-dB-6-6-6	16.68	1.94	1.50
WR75	10.0 - 15.0	CMI75-BW-dB-6-6-6	15.00	2.50	1.25
WR62	12.4 - 18.0	CMI62-BW-dB-6-6-6	13.75	2.18	0.66
WR51	15.0 - 22.0	CMI51-BW-dB-6-6-6	11.50	1.25	0.66
WR42	18.0 - 26.5	CMI42-BW-dB-6-6-6	9.50	1.25	0.75
WR34	22.0 - 33.0	CMI34-BW-dB-6-6-6	9.00	1.25	0.75
WR28	26.5 - 40.0	CMI28-BW-dB-6-6-6	8.00	1.12	0.75

Insert desired coupling value (30, 40, or 50dB) where dB is listed in the model number.

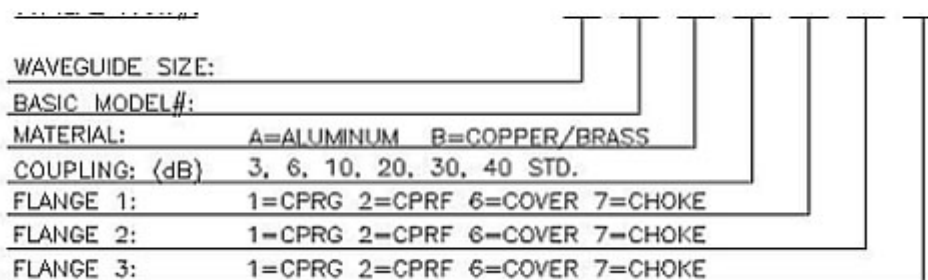
Note: The standard model numbers above are the most common parts ordered for size, material and flange.

However, these models can easily be altered to accommodate your needs by using the above model # code system.

Ordering Information

Typical part:

112-BWSMA/N-A-20-2-2-2



Example: P/N CMI112-BWSMA-20-2-2 is WR112 Coupler, Aluminum material, 20dB coupling, CPRF flanges.

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Multi-Hole Directional Coupler-2 Waveguide Ports, 1 SMA Coax Port

WG Size	Freq GHz	Model No.	Dimensions		
			A	B	C
WR430	1.70 - 2.60	CMI430-BWSMA-2	60.00	3.76	5.00
WR284	2.60 - 3.95	CMI284-BWSMA-6	50.25	2.55	2.66
WR229	3.30 - 4.90	CMI229-BWSMA-2	42.00	2.22	2.25
WR187	3.95 - 5.85	CMI187-BWSMA-6	34.62	1.81	2.00
WR159	4.90 - 7.05	CMI159-BWSMA-2	32.50	1.82	1.75
WR137	5.85 - 8.20	CMI137-BWSMA-2	26.50	1.56	1.75
WR112	7.05 - 10.0	CMI112-BWSMA-6	18.62	1.38	1.75
WR90	8.20 - 12.4	CMI90-BWSMA-6	16.68	1.20	1.75
WR75	10.0 - 15.0	CMI75-BWSMA-6	15.00	1.17	1.50
WR62	12.4 - 18.0	CMI62-BWSMA-6	13.75	1.05	1.00
WR51	15.0 - 22.0	CMI51-BWSMA-6	11.50	0.97	0.75
WR42	18.0 - 26.5	CMI42-BWSMA-6	9.50	0.84	0.75
WR34	22.0 - 33.0	CMI34-BWSMA-6	9.00	0.84	0.75
WR28	26.5 - 40.0	CMI28-BWSMA-6	8.00	0.79	0.88

Multi-Hole Directional Coupler-2 Waveguide Ports, 1 Type N Port

WG Size	Freq GHz	Model No.	Dimensions		
			A	B	C
WR430	1.70 - 2.60	CMI430-BWN-2	60.00	4.12	5.00
WR284	2.60 - 3.95	CMI284-BWN-6	50.25	2.91	2.66
WR229	3.30 - 4.90	CMI229-BWN-2	42.00	2.58	2.25
WR187	3.95 - 5.85	CMI187-BWN-6	34.62	2.17	2.00
WR159	4.90 - 7.05	CMI159-BWN-2	32.50	2.18	1.75
WR137	5.85 - 8.20	CMI137-BWN-2	26.50	1.92	1.75
WR112	7.05 - 10.0	CMI112-BWN-6	18.62	1.73	1.75
WR90	8.20 - 12.4	CMI90-BWN-6	16.68	1.56	1.75
WR75	10.0 - 15.0	CMI75-BWN-6	15.00	1.52	1.50
WR62	12.4 - 18.0	CMI62-BWN-6	13.75	1.41	1.00

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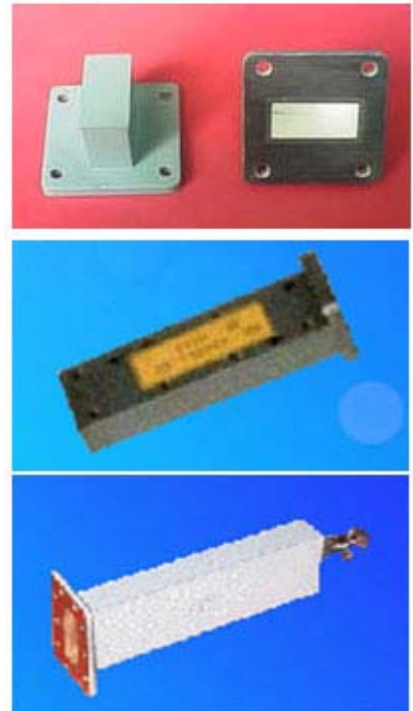
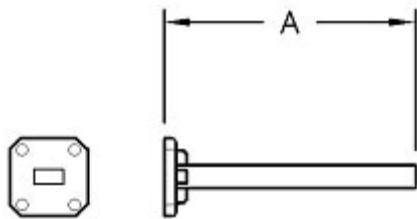
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Low Power Matched Terminations

**LOW VSWR
LIGHT WEIGHT
FULL BANDWIDTH
COMPACT**

CMI's Rectangular Waveguide Standard Terminations consist of precision aluminum waveguide containing rugged material especially selected and designed to absorb incident power with very low reflection.

These units are ideal for laboratory and field measurements and production setups requiring high quality terminations. Additional features are short length and light weight. Typical applications include VSWR measurement of waveguide components, low power dummy antennas and matched terminations for directional couplers, hybrids and other devices.



Typical Part #: _____ **WGSize-LT Material -Flange**

Basic Model#: _____

Material: A=Alum, B=Brass, C=Copper

Flange: 1=CPRG, 2=CPRF, 6=Cover, 7=Choke

Example: P/N CMI187-LTA-6 is WR187 low power term. Aluminum Material–Cover Flange

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Standard Models					
WG Size	Freq GHz	VSWR max.	Avg Power Watts	Standard Model No.	Dim A. (Inches)
WR650	1.12 - 1.70	1.02	25	CMI650-LTA-2	12.50
WR430	1.70 - 2.60	1.02	15	CMI430-LTA-2	11.00
WR340	2.20 - 3.30	1.01	12	CMI340-LTA-2	10.75
WR284	2.60 - 3.95	1.01	10	CMI284-LTA-6	10.75
WR229	3.30 - 4.90	1.01	10	CMI229-LTB-2	7.50
WR187	3.95 - 5.85	1.01	8	CMI187-LTA-6	6.25
WR159	4.90 - 7.05	1.01	7	CMI159-LTB-2	6.00
WR137	5.85 - 8.20	1.01	6	CMI137-LTB-2	5.50
WR112	7.05 - 10.0	1.01	4	CMI112-LTB-6	5.00
WR102	7.00 - 11.0	1.01	3	CMI102-LTA-6	4.00
WR90	8.2 - 12.4	1.01	4	CMI90-LTA-6	4.00
WR75	10.0 - 15.0	1.01	2	CMI75-LTB-6	4.00
WR62	12.4 - 18.0	1.01	1.5	CMI62-LTB-6	4.00
WR42	18.0 - 26.5	1.01	0.5	CMI42-LTB-6	2.50
WR34	22.0 - 33.0	1.01	0.5	CMI34-LTB-6	2.50
WR28	26.5 - 40.0	1.02	0.5	CMI28-LTB-6	2.00
WR22	33.0 - 50.0	1.02	0.5	CMI22-LTB-6	1.50

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Rectangular Waveguide Well-Matched Tees and Hybrids

LOW VSWR
COMPACT
FULL BANDWIDTH

CMI offers a superior line of well-matched, broadband 4-port Hybrid magic tees and 3-port tees (100-E for E-Plane series tee). They can also be supplied with an integral medium power termination on the E arm (100-L). The 3-port tees may be used in power dividing networks or as combiners of high power tube outputs. The magic tee hybrid is even more suitable as it offers high isolation. Common applications of the hybrid include balanced mixer operations and connecting a transmitter and receiver to a pair of fore and aft antennas on an aircraft. All units are aluminum with chromate conversion finish. Paint is gray epoxy enamel.

Specifications:

VSWR: Lower VSWR can be supplied over reduced bandwidths -e.g. 1.1 over 5%, 1.15 over 10% 1.20 over 20% frequency bandwidths.

Power Split: 3.2 ± 0.2 dB (typ. tracking < 0.3 dB = Phase Balance: within $\pm 5^\circ$ Hybrid

Isolation: 30dB to H are, 15 dB collinear arms.

Ordering Information:

- (1) For reduced VSWR over narrow band, add suffix "N" and specify band and VSWR desired.
- (2) Other flanges, materials, and tees such as folded, reduced height, and unequal split are available on request.
- (3) Other waveguide bands and sizes are also available.

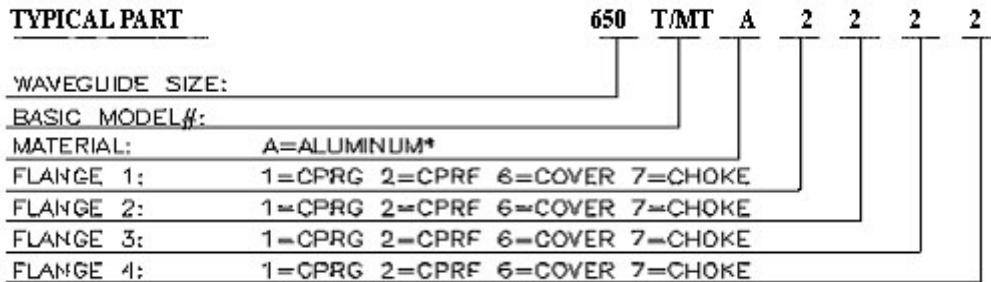


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Code system



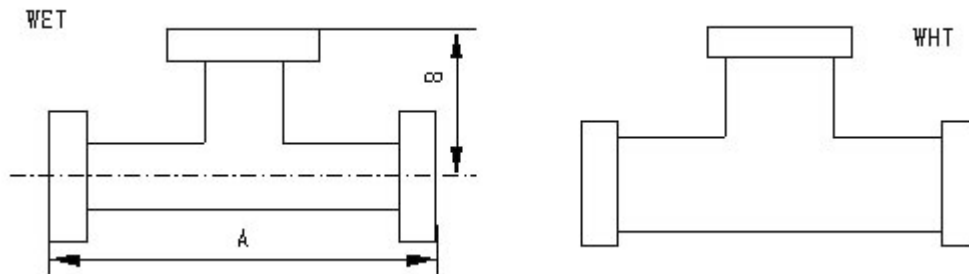
Example: P/N CMI284-THA-6-6-6 is WR284 series H Tee Aluminum Material–Cover Flange–Cover Flange–Cover Flange

Waveguide Magic Tees						
WG Size	Optimum Freq Range (GHz)	Bandwidth%	VSWR Max E H	Max Unbalanced +/- dB	Standard Model No.	Dimension(MM)
WR430	1.90 - 2.30	10 ~ 20	1.2 , 1.5	0.25	CMI430-MTA-2-2-2-2	200x100x100
WR340	2.30 - 2.60	10 ~ 20	1.2 , 1.5	0.25	CMI340-MTA-2-2-2-2	185x92.5x73
WR284	2.90 - 3.20	10 ~ 20	1.2 , 1.5	0.25	CMI284-MTA-6-6-6-6	185x92.5x73
WR229	3.70 - 4.20	10 ~ 20	1.2 , 1.3	0.25	CMI229-MTA-2-2-2-2	120x 60x 60
WR187	4.40 - 5.00	10 ~ 20	1.2 , 1.3	0.25	CMI187-MTA-6-6-6-6	110x 55x 55
WR159	5.90 - 6.40	10 ~ 20	1.2 , 1.3	0.25	CMI159-MTA-2-2-2-2	120x 60x 55
WR137	5.90 - 6.40	10 ~ 20	1.2 , 1.3	0.25	CMI137-MTA-2-2-2-2	100x 50x 40
WR112	7.90 - 8.40	10 ~ 20	1.2 , 1.3	0.25	CMI112-MTA-6-6-6-6	100x50x40
WR102	8.50 - 9.80	10 ~ 20	1.2 , 1.3	0.25	CMI102-MTA-6-6-6-6	100x50x50
WR90	9.00 - 10.0	10 ~ 20	1.2 , 1.3	0.25	CMI90-MTA-6-6-6-6	80x40x40
WR75	13.5 - 14.5	10 ~ 20	1.2 , 1.5	0.25	CMI75-MTA-6-6-6-6	70x35x35
WR62	14.0 - 15.0	10 ~ 20	1.2 , 1.5	0.25	CMI62-MTA-6-6-6-6	70x35x35
WR42	20.0 - 23.0	10 ~ 20	1.2 , 1.5	0.25	CMI42-MTA-6-6-6-6	45x23x23
WR28	34.0 - 37.0	10 ~ 20	1.2 , 1.5	0.25	CMI28-MTA-6-6-6-6	32x20x20

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Hybrid Tees				
WG Size	Optimum Freq Range (GHz)	Standard Model No. Series Tees(E)	Standard Model No. Shunt Tees(H)	Dimension A(mm)
WR650	1.12 - 1.70	CMI650-TEA-2-2-2	CMI650-THA-2-2-2	267
WR430	1.70 - 2.60	CMI430-TEA-2-2-2	CMI430-THA-2-2-2	229
WR340	2.20 - 3.30	CMI340-TEA-2-2-2	CMI340-THA-2-2-2	210
WR284	2.60 - 3.95	CMI284-TEA-6-6-6	CMI284-THA-6-6-6	7.50
WR229	3.30 - 4.90	CMI229-TEA-2-2-2	CMI229-THA-2-2-2	190
WR187	3.95 - 5.85	CMI187-TEA-6-6-6	CMI187-THA-6-6-6	146
WR159	4.90 - 7.05	CMI159-TEA-2-2-2	CMI159-THA-2-2-2	140
WR137	5.85 - 8.20	CMI137-TEA-2-2-2	CMI137-THA-2-2-2	130
WR112	7.05 - 10.0	CMI112-TEA-6-6-6	CMI112-THA-6-6-6	83
WR102	7.00 - 11.0	CMI102-TEA-6-6-6	CMI102-THA-6-6-6	81
WR90	8.20 - 12.4	CMI90-TEA-6-6-6	CMI90-TAH-6-6-6	79
WR75	10.0 - 15.0	CMI75-TEA-6-6-6	CMI75-THA-6-6-6	76
WR62	12.4 - 18.0	CMI62-TEA-6-6-6	CMI62-THA-6-6-6	67
WR42	18.0 - 26.5	CMI42-TEA-6-6-6	CMI42-THA-6-6-6	64
WR34	22.0 - 33.0	CMI34-TEA-6-6-6	CMI34-THA-6-6-6	61
WR28	26.5 - 40.0	CMI28-TEA-6-6-6	CMI28-THA-6-6-6	60

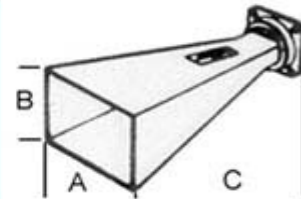
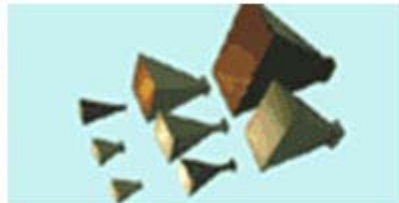
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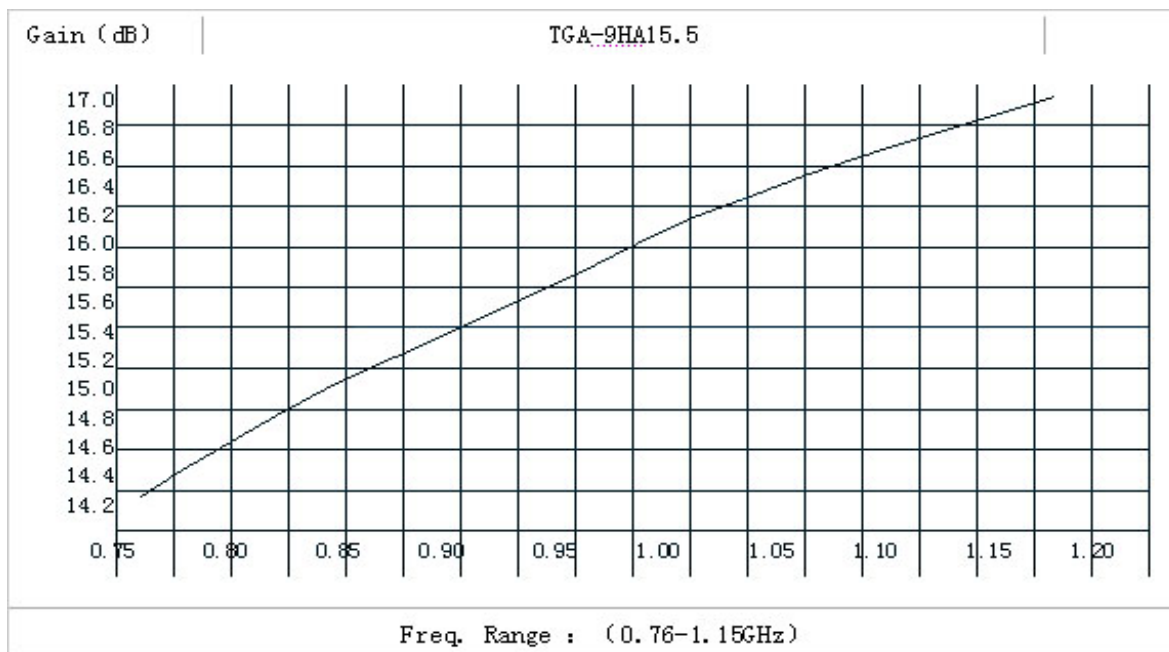
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Standard Gain Horn Antennas

- Lightweight Aluminum Material
- Corrosion Resistant Finish
- Standard Gain Models are 10, 15 and 20. Others available consult factory for details
- Low VSWR
- Multiple Flange Types available
- Typical Gain Variation: +/-1.5 to +/-2.0dB
- Inputs are WG flanges. For SMA or Type N order Tiger's WG to Coax Adaptors
- SMA models, Type N models
- Contact CMI for Radomes, Brackets and other options.



Typical Test Graphic



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Model No.	Frequency (GHz)	Waveguide	Gain(dB)	Waveguide-Coaxial Adapters	Shape AxBxC	Material
CMI-3HA13	0.26 ~ 0.41	BJ - 3	13	CMI-3WCA/N	1700×1300×675	Al
CMI-4HA13	0.32 ~ 0.49	BJ - 4	13	CMI-4WCA/N		Al
CMI-5HA13	0.41 ~ 0.62	BJ - 5	13	CMI-5WCA/N		Al
CMI-6HA14	0.49 ~ 0.75	BJ - 6	14	CMI-6WCA/N	1230×990×1220	Al
CMI-8HA14	0.64 ~ 0.98	BJ - 8	14	CMI-8WCA/N		Al
CMI-9HA15.5	0.77 ~ 1.14	BJ - 9	15.5	CMI-9WCA/N	827×613×610	Al
CMI-12HA15.5	0.96 ~ 1.46	BJ - 12	15.5	CMI-12WCA/N	600×300×1000	Al
CMI-14HA15.5	1.14 ~ 1.72	WR650	15.5	CMI-14WCA/N	557×413×410	Al
CMI-18HA15.5	1.45 ~ 2.2	WR510	15.5	CMI-18WCA/N	446×345×350	Al
CMI-22HA15.5	1.72 ~ 2.6	WR430	15.5	CMI-22WCA/N	365×28.2×270	Al
CMI-26HA15.5	2.17 ~ 3.3	WR340	15.5	CMI-26WCA/N	309×238.5×235	Al
CMI-32HA20	2.6 ~ 3.95	WR284	20	CMI-32WCA/N	380×260×450	Al
CMI-40HA20	3.3 ~ 4.9	WR229	20	CMI-40WCA/N	350×270×390	Al
CMI-48HA20	3.95 ~ 5.85	WR187	20	CMI-48WCA/N	280×215×320	Al
CMI-58HA20	4.95 ~ 7.05	WR159	20	CMI-58WCA/N	240×180×280	Al
CMI-70HA20	5.85 ~ 8.2	WR137	20	CMI-70WCA/N/SMA	200×155×260 □	Al
CMI-84HA20	7.05 ~ 10.0	WR112	20	CMI-84WCA/N/SMA	159×122×220	Al
CMI-100HA20	8.2 ~ 12.4	WR90	20	CMI-100WCA/N/SMA	135×104×170	Al/Cu
CMI-100HA25	8.2 ~ 12.4	WR90	25	CMI-100WCA/N/SMA	300×232×655	Al/Cu
CMI-120HA20	10.0 ~ 15.0	WR75	20	CMI-120WCA/N/SMA	108×83×135 □	Al/Cu
CMI-140HA20	12.4 ~ 18.0	WR62	20	CMI-140WCA/N/SMA	90×69×115 □	Al/Cu
CMI-140HA24.7	12.4 ~ 18.0	WR62	24.7	CMI-140WCA/N/SMA	152×125×306	Al/Cu
CMI-180HA20	15.0 ~ 22.0	WR51	20	CMI-180WS/APC3.5	80×60×100	Cu
CMI-180HA24.7	15.0 ~ 22.0	WR51	24.7	CMI-180WS/APC3.5	129×79×25	Cu
CMI-220HA20	18.0 ~ 26.5	WR42	20	CMI-220WS/3.5/2.4	68×55×40	Cu
CMI-220HA24.7	18.0 ~ 26.5	WR42	24.7	CMI-220WS/3.5/2.4	105×81×285	Cu
CMI-260HA24.7	22.0 ~ 33.0	WR34	24.7	CMI-260WS/3.5/2.4	89×68.7×200	Cu
CMI-320HA20	26.5 ~ 40.0	WR28	20	CMI-320WS/3.5/2.4	39×30×60	Cu
CMI-320HA24.7	26.5 ~ 40.0	WR28	24.7	CMI-320WS/3.5/2.4	69×57×153	Cu
CMI-400HA24.7	33.0 ~ 50.0	WR22	24.7	CMI-400WCA3.5/2.4		Cu
CMI-500HA24.7	40.0 ~ 60.0	WR18	24.7	CMI-500WCA3.5/2.4		Cu
CMI-620HA24.7	50.0 ~ 75.0	WR14	24.7			Cu
CMI-740HA24.7	60.0 ~ 90.0	WR12	24.7			Cu
CMI-900HA24.7	75.0 ~ 110.0	WR10	24.7		26×20×63	Cu

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