



# In-building Wireless Passive Products and Antennas

## Ordering Guide

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<b>Passive Devices</b>	
Overview .....	2
Tappers .....	2
Air Directional Couplers .....	3
High Power Hybrid Matrix .....	4
Hybrid Air Dielectric Couplers .....	4
Power Splitters .....	5
Terminations .....	7
Attenuators .....	8
Universal Bracket Kit .....	8
<b>DAS Antennas</b>	
Overview .....	9
Stadium and Venue DAS Antennas .....	9
In-Building DAS Antennas .....	11
Mounting Kits .....	14

## Passive Devices

CommScope offers the passive devices that power many of the world's most efficient wireless networks. Our splitters, couplers, tappers and termination are manufactured to the highest standards to ensure that active components in the network function properly. We pay special attention to soldering, sealing, and the use of non-ferric-based designs to prevent network-crippling passive intermodulation (PIM) often caused by poor connections and vibrations.

By delivering performance and longevity, our passive devices help operators optimize their OpEx while maximizing their network efficiency.

## Tappers

Tappers support indoor and outdoor applications for Public Safety and Mobile services (2G/3G/4G/5G and WiFi) from 340MHz to 6GHz. Each unit couples a defined fraction of high-power cellular signal with minimal reflections or loss. The wide frequency range is ideal for multiband antennas, radiating cable systems and in-wire base stations.

Description	PIM	Connector Type	Part Number
<b>Tappers</b> 340–960/1710–2700 MHz			
6 dB	-160dBc	7-16 DIN Female	<a href="#">CT-6-TCPUSE-Di6</a>
8 dB		7-16 DIN Female	<a href="#">CT-8-TCPUSE-Di6</a>
10 dB		7-16 DIN Female	<a href="#">CT-10-TCPUSE-Di6</a>
13 dB		7-16 DIN Female	<a href="#">CT-13-TCPUSE-Di6</a>
15 dB		7-16 DIN Female	<a href="#">CT-15-TCPUSE-Di6</a>
20 dB		7-16 DIN Female	<a href="#">CT-20-TCPUSE-Di6</a>
<b>Tappers</b> 340–6000 MHz			
5 dB	-163dBc for N type, -165dBc for 4.3-10 type	4.3-10 Female	<a href="#">CT-5-TUW-43-i6</a>
6 dB		N Female	<a href="#">CT-5-TUW-Ni6</a>
		4.3-10 Female	<a href="#">CT-6-TUW-43-i6</a>
8 dB		N Female	<a href="#">CT-6-TUW-Ni6</a>
		4.3-10 Female	<a href="#">CT-8-TUW-43-i6</a>
10 dB		N Female	<a href="#">CT-8-TUW-Ni6</a>
		4.3-10 Female	<a href="#">CT-10-TUW-43-i6</a>
13 dB		N Female	<a href="#">CT-10-TUW-Ni6</a>
		4.3-10 Female	<a href="#">CT-13-TUW-43-i6</a>
15 dB		N Female	<a href="#">CT-13-TUW-Ni6</a>
		4.3-10 Female	<a href="#">CT-15-TUW-43-i6</a>
20 dB		N Female	<a href="#">CT-15-TUW-Ni6</a>
		4.3-10 Female	<a href="#">CT-20-TUW-43-i6</a>
30 dB		N Female	<a href="#">CT-20-TUW-Ni6</a>
		4.3-10 Female	<a href="#">CT-30-TUW-43-i6</a>
		N Female	<a href="#">CT-30-TUW-Ni6</a>



## Air Directional Couplers

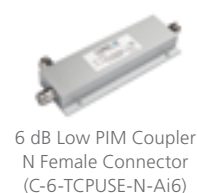
These couplers are ideal for complex applications. They enforce very low passive intermodulation, minimize RF insertion loss and enable multiband frequency coverage.

Description	PIM	Connector Type	Part Number
Air Directional Couplers			
555-2700 MHz			
5 dB	-160dBc	7-16 DIN Female	<a href="#">C-5-CPUSE-D-Ai6</a>
6 dB		7-16 DIN Female	<a href="#">C-6-CPUSE-D-Ai6</a>
8 dB		7-16 DIN Female	<a href="#">C-8-CPUSE-D-Ai6</a>
10 dB		7-16 DIN Female	<a href="#">C-10-CPUSE-D-Ai6</a>
13 dB		7-16 DIN Female	<a href="#">C-13-CPUSE-D-Ai6</a>
15 dB		7-16 DIN Female	<a href="#">C-15-CPUSE-D-Ai6</a>
20 dB		7-16 DIN Female	<a href="#">C-20-CPUSE-D-Ai6</a>
30 dB		7-16 DIN Female	<a href="#">C-30-CPUSE-D-Ai6</a>
Air Directional Couplers			
555-6000 MHz			
5 dB	-163dBc for N type, -165dBc for 4.3- 10 type	N Female	<a href="#">C-5-UW-N-Ai6</a>
		4.3-10 Female	<a href="#">C-5-UW-43-Ai6</a>
6 dB		N Female	<a href="#">C-6-UW-N-Ai6</a>
		4.3-10 Female	<a href="#">C-6-UW-43-Ai6</a>
8 dB		N Female	<a href="#">C-8-UW-N-Ai6</a>
		4.3-10 Female	<a href="#">C-8-UW-43-Ai6</a>
10 dB		N Female	<a href="#">C-10-UW-N-Ai6</a>
		4.3-10 Female	<a href="#">C-10-UW-43-Ai6</a>
13 dB		N Female	<a href="#">C-13-UW-N-Ai6</a>
		4.3-10 Female	<a href="#">C-13-UW-43-Ai6</a>
15 dB		N Female	<a href="#">C-15-UW-N-Ai6</a>
		4.3-10 Female	<a href="#">C-15-UW-43-Ai6</a>
20 dB		N Female	<a href="#">C-20-UW-N-Ai6</a>
		4.3-10 Female	<a href="#">C-20-UW-43-Ai6</a>
30 dB		N Female	<a href="#">C-30-UW-N-Ai6</a>
		4.3-10 Female	<a href="#">C-30-UW-43-Ai6</a>



Description	PIM	Connector Type	Part Number
<b>Low PIM Air Directional Couplers</b> 340-2700 MHz			
6 dB	-160dBc	7-16 DIN Female	<a href="#">C-6-TCPUSE-D-Ai6</a>
		N Female	<a href="#">C-6-TCPUSE-N-Ai6</a>
10 dB		7-16 DIN Female	<a href="#">C-10-TCPUSE-D-Ai6</a>
		N Female	<a href="#">C-10-TCPUSE-N-Ai6</a>
15 dB		7-16 DIN Female	<a href="#">C-15-TCPUSE-D-Ai6</a>
		N Female	<a href="#">C-15-TCPUSE-N-Ai6</a>
20 dB		7-16 DIN Female	<a href="#">C-20-TCPUSE-D-Ai6</a>
		N Female	<a href="#">C-20-TCPUSE-N-Ai6</a>
30 dB		7-16 DIN Female	<a href="#">C-30-TCPUSE-D-Ai6</a>
		N Female	<a href="#">C-30-TCPUSE-N-Ai6</a>

Description	PIM	Connector Type	Part Number
<b>ValuDAS® Air Directional Couplers</b> 698-2700 MHz			
6 dB	-155dBc	N Female	<a href="#">VD-C6-CPUSE-N-A</a>
8 dB		N Female	<a href="#">VD-C8-CPUSE-N-A</a>
10 dB		N Female	<a href="#">VD-C10-CPUSE-N-A</a>
13 dB		N Female	<a href="#">VD-C13-CPUSE-N-A</a>
15 dB		N Female	<a href="#">VD-C15-CPUSE-N-A</a>
20 dB		N Female	<a href="#">VD-C20-CPUSE-N-A</a>



## High Power Hybrid Matrix

Multiband 4x4 and 3x3 High Power Hybrid Matrices combine 4 or 3 input signals into 4 or 3 output signals with minimum dissipative loss. Hybrid Matrices can be used for indoor or outdoor applications. Hybrid Matrices use air dielectric technology and as a result offer very low intermodulation characteristics over a wider frequency range. A wide frequency range allows for use with single or multiband signal sources. The device is designed to maximize the isolation and minimize intermodulation.

Description	Connector Type	Part Number
<b>Low PIM 4x4 High Power Hybrid Matrix</b> 555-2700 MHz, 6.1 dB	4.3-10 Female	<a href="#">H-4X4-CPUSE-43-Ai6</a>
	N Female	<a href="#">H-4X4-CPUSE-NAi6</a>
	7-16 DIN Female	<a href="#">H-4X4-CPUSE-DAi6</a>
<b>Low PIM 3x3 High Power Hybrid Matrix</b> 555-2700 MHz, 5.0 dB	4.3-10 Female	<a href="#">H-3X3-CPUSE-43-Ai6</a>



4x4 Hybrid Matrix  
(H-4X4-CPUSE-43-Ai6)



3x3 Hybrid Matrix  
(H-3X3-CPUSE-43-Ai6)

## Hybrid Air Dielectric Couplers

Hybrid couplers combine two wireless carriers to a single antenna feed or cable. They maximize isolation in wireless bands by using a few solder joints and contain an air dielectric to minimize loss and enhance reliability. One feed requires the termination of an output port in 50 ohms and results in a 3 dB loss per signal. Using both outputs for two similar feeds eliminates the loss.

Description	PIM	Frequency Band	Connector Type	Part Number
Hybrid Air Dielectric Couplers				
3 dB	-160dBc for N type and DIN type, -162dBc for 4.3-10 type	555–2700 MHz	7-16 DIN Female	<a href="#">H-3-CPUSE-D-Ai6</a>
			N Female	<a href="#">H-3-CPUSE-N-Ai6</a>
			4.3-10 Female	<a href="#">H-3-CPUSE-43-Ai6</a>
Low PIM Hybrid Air Dielectric Couplers				
3 dB	-163dBc for N type, -165dBc for 4.3-10 type	555-6000 MHz	N Female	<a href="#">H-3-UW-N-Ai6</a>
			4.3-10 Female	<a href="#">H-3-UW-43-Ai6</a>
3.1 dB	-160dBc	340-2700 MHz	N Female	<a href="#">H-3-TCPUSE-N-Ai6</a>
ValuDAS Hybrid Couplers				
3.1 dB	-155dBc	698–2700 MHz	N Female	<a href="#">VD-H2X2-CPUSE-N-A</a>
			4.3-10 Female	<a href="#">VD-H2X2-CPUSE-43-A</a>
ValuDAS Air Dielectric Couplers				
6 dB	-155dBc	698–2700 MHz	4.3-10 Female	<a href="#">VD-C6-CPUSE-43-A</a>
8 dB				<a href="#">VD-C8-CPUSE-43-A</a>
10 dB				<a href="#">VD-C10-CPUSE-43-A</a>
13 dB				<a href="#">VD-C13-CPUSE-43-A</a>
15 dB				<a href="#">VD-C15-CPUSE-43-A</a>
20 dB				<a href="#">VD-C20-CPUSE-43-A</a>
30 dB				<a href="#">VD-C30-CPUSE-43-A</a>



Hybrid Coupler  
(H-3-CPUSE-D-Ai6)



Low PIM Hybrid Air Dielectric Coupler  
(H-3-TCPUSE-N-Ai6)



ValuDAS Hybrid Coupler  
(VD-H2X2-CPUSE-N-A)

## Power Splitters

Multiband high-power splitters evenly distribute high-power signals with minimal reflections or loss. The reactive design employs no resistors, eliminating potential PIM damage. The SMR, PCS, UMTS and LTE frequency range enables use with single or multiband antennas and radiating cable systems. Minimal solder joints and an air dielectric enhance reliability.

Description	PIM	Connector Type	Part Number
<b>Reactive Power Splitters</b> 555–2700 MHz			
Two-Way	-160 dBc	7-16 DIN Female	<a href="#">S-2-CPUSE-H-Di6</a>
Three-Way	-160 dBc	7-16 DIN Female	<a href="#">S-3-CPUSE-H-Di6</a>
Four-Way	-160 dBc	7-16 DIN Female	<a href="#">S-4-CPUSE-H-Di6</a>
<b>Low Power Splitters</b> 555–2700 MHz			
Two-Way	-130 dBc	N Female	<a href="#">S-2-CPUSE-L-N</a>
	-150 dBc	N Female	<a href="#">S-2-CPUSE-L-Ni</a>
	-153 dBc	4.3-10 Female	<a href="#">S-2-CPUSE-L-43-i53</a>
Three-Way	-130 dBc	N Female	<a href="#">S-3-CPUSE-L-N</a>
	-150 dBc	N Female	<a href="#">S-3-CPUSE-L-Ni</a>
	-153 dBc	4.3-10 Female	<a href="#">S-3-CPUSE-L-43-i53</a>
Four-Way	-130 dBc	N Female	<a href="#">S-4-CPUSE-L-N</a>
	-150 dBc	N Female	<a href="#">S-4-CPUSE-L-Ni</a>
	-153 dBc	4.3-10 Female	<a href="#">S-4-CPUSE-L-43-i53</a>
<b>ValuDAS Reactive Power Splitters</b> 698–2700 MHz			
Two-Way	-155 dBc	N Female	<a href="#">VD-S2-CPUSE-H-N</a>
		4.3-10 Female	<a href="#">VD-S2-CPUSE-H-43</a>
Three-Way	-155 dBc	N Female	<a href="#">VD-S3-CPUSE-H-N</a>
		4.3-10 Female	<a href="#">VD-S3-CPUSE-H-43</a>
Four-Way	-155 dBc	N Female	<a href="#">VD-S4-CPUSE-H-N</a>
		4.3-10 Female	<a href="#">VD-S4-CPUSE-H-43</a>



Four-Way Reactive Power Splitter  
7-16 DIN Female Connector  
(S-4-CPUSE-H-Di6)



Four-Way Low Power Splitter  
N Female Connector  
(S-4-CPUSE-L-N)



Four-Way ValuDAS Reactive Power Splitter  
N Female Connector  
(VD-S4-CPUSE-H-N)

Continued on next page

## Power Splitters continued

Description	PIM	Frequency Band	Connector Type	Part Number
Multiband Low PIM Reactive High Power Splitters				
Two-Way	-160 dBc	340–2700 MHz	7-16 DIN Female	<a href="#">S-2-TCPUSE-H-Di6</a>
			N Female	<a href="#">S-2-TCPUSE-H-Ni6</a>
Three-Way		340–2700 MHz	7-16 DIN Female	<a href="#">S-3-TCPUSE-H-Di6</a>
			N Female	<a href="#">S-3-TCPUSE-H-Ni6</a>
Four-Way		340–2700 MHz	7-16 DIN Female	<a href="#">S-4-TCPUSE-H-Di6</a>
			N Female	<a href="#">S-4-TCPUSE-H-Ni6</a>
Ultra Wideband Low PIM Reactive High Power Splitters				
Two-Way	-163dBc for N type, -165dBc for 4.3-10 type	555–6000 MHz	N Female	<a href="#">S-2-UW-H-Ni6</a>
			4.3-10 Female	<a href="#">S-2-UW-H-43-i6</a>
Three-Way		555–6000 MHz	N Female	<a href="#">S-3-UW-H-Ni6</a>
			4.3-10 Female	<a href="#">S-3-UW-H-43-i6</a>
Four-Way		555–6000 MHz	N Female	<a href="#">S-4-UW-H-Ni6</a>
			4.3-10 Female	<a href="#">S-4-UW-H-43-i6</a>



Two-Way Multiband Low PIM Splitter  
N Female Connector  
(S-2-TCPUSE-H-Ni6)



Three-Way Multiband Low PIM Splitter  
7-16 DIN Female Connector  
(S-3-TCPUSE-H-Di6)



Four-Way Multiband Low PIM Splitter  
N Female Connector  
(S-4-TCPUSE-H-Ni6)



Two-Way Ultra Wideband Splitter  
N Female Connector  
(S-2-UW-H-Ni6)



Three-Way Ultra Wideband Splitter  
4.3-10 Female Connector  
(S-3-UW-H-43-i6)



Four-Way Ultra Wideband Splitter  
N Female Connector  
(S-4-UW-H-Ni6)

## Terminations

Terminations are ideal for high power applications where low PIM is essential.  
They cover up to 200 W and can be used to terminate unused/open RF ports.

Description	Connector Type	Part Number
<b>Terminations</b> 0–6000 MHz		
2 Watt	N Male	T-2-UW-NM
	N Female	T-2-UW-NF
	4.3-10 Male	T-2-UW-43-M
	4.3-10 Female	T-2-UW-43-F
10 Watt	N Male	T-10-UW-NM
	N Female	T-10-UW-NF
	4.3-10 Male	T-10-UW-43-M
	4.3-10 Female	T-10-UW-43-F
25 Watt	N Male	T-25-UW-NM
	N Female	T-25-UW-NF
	4.3-10 Male	T-25-UW-43-M
	4.3-10 Female	T-25-UW-43-F
50 Watt	N Male	T-50-UW-NM
	N Female	T-50-UW-NF
	4.3-10 Male	T-50-UW-43-M
	4.3-10 Female	T-50-UW-43-F
100 Watt	N Male	T-100-UW-NM
	N Female	T-100-UW-NF
	4.3-10 Male	T-100-UW-43-M
	4.3-10 Female	T-100-UW-43-F



2 Watt  
4.3-10 Male Connector  
(T-2-UW-43-M)



2 Watt  
4.3-10 Female Connector  
(T-2-UW-43-F)



100 Watt  
4.3-10 Male Connector  
(T-100-UW-43-M)

Description	PIM	Connector Type	Part Number
Low PIM Terminations			
555-2700 MHz for 7-16 DIN and N connectors			
340-2700 MHz for 4.3-10 connectors			
10 Watt	PIM: -160dBc for N and DIN type, -162dBc for 4.3-10 type	7-16 DIN Female	T-10-DFi6
		7-16 DIN Male	T-10-DMi6
		N Female	T-10-NFi6
		N Male	T-10-NMi6
		4.3-10 Female	T-10-43-F-i6
		4.3-10 Male	T-10-43-M-i6
30 Watt		7-16 DIN Female	T-30-DFi6
		7-16 DIN Male	T-30-DMi6
		N Female	T-30-NFi6
		N Male	T-30-NMi6
		4.3-10 Female	T-30-43-F-i6
		4.3-10 Male	T-30-43-M-i6
50 Watt		7-16 DIN Female	T-50-DFi6
		7-16 DIN Male	T-50-DMi6
		N Female	T-50-NFi6
		N Male	T-50-NMi6
		4.3-10 Female	T-50-43-F-i6*
		4.3-10 Male	T-50-43-M-i6*
100 Watt		7-16 DIN Female	T-100-DFi6
		7-16 DIN Male	T-100-DMi6
		N Female	T-100-NFi6
		N Male	T-100-NMi6
		4.3-10 Female	T-100-43-F-i6*
		4.3-10 Male	T-100-43-M-i6*
200 Watt		7-16 DIN Female	T-200-DFi6
		7-16 DIN Male	T-200-DMi6

\*Frequency band: DC-3 GHz



30 Watt  
N Female Connector  
(T-30-DFi6)



30 Watt  
N Male Connector  
(T-30-DMi6)



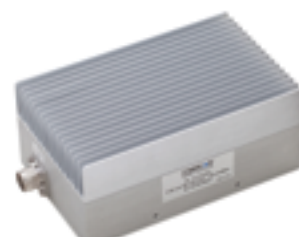
50 Watt  
4.3-10 Male Connector  
(T-50-43-M-i6)

## Attenuators

Description	Connector Type	Part Number
<b>Attenuators</b> 555–2700 MHz, –160 dBc		
3 dB	4.3-10 Female to Female	<a href="#">AT-3-43-FFi6</a>
	N Female - N Female	<a href="#">AT-3-N-FFi6</a>
6 dB	4.3-10 Female to Female	<a href="#">AT-6-43-FFi6</a>
	4.3-10 Male to Female	<a href="#">AT-6-43-MFi6</a>
	N Female - N Female	<a href="#">AT-6-N-FFi6</a>
	N Male - N Female	<a href="#">AT-6-N-MFi6</a>
	DIN Male - DIN Female	<a href="#">AT-6-D-MFi6</a>
10 dB	4.3-10 Female to Female	<a href="#">AT-10-43-FFi6</a>
	4.3-10 Male to Female	<a href="#">AT-10-43-MFi6</a>
	N Female - N Female	<a href="#">AT-10-N-FFi6</a>
	N Male - N Female	<a href="#">AT-10-N-MFi6</a>
	DIN Male - DIN Female	<a href="#">AT-10-D-MFi6</a>
15 dB	4.3-10 Female to Female	<a href="#">AT-15-43-FFi6</a>
	4.3-10 Male to Female	<a href="#">AT-15-43-MFi6</a>
	N Female - N Female	<a href="#">AT-15-N-FFi6</a>
	N Male - N Female	<a href="#">AT-15-N-MFi6</a>
	DIN Male - DIN Female	<a href="#">AT-15-D-MFi6</a>
20 dB	4.3-10 Female to Female	<a href="#">AT-20-43-FFi6</a>
	4.3-10 Male to Female	<a href="#">AT-20-43-MFi6</a>
	N Female - N Female	<a href="#">AT-20-N-FFi6</a>
	N Male - N Female	<a href="#">AT-20-N-MFi6</a>
	DIN Male - DIN Female	<a href="#">AT-20-D-MFi6</a>
30 dB	4.3-10 Female to Female	<a href="#">AT-30-43-FFi6</a>
	4.3-10 Male to Female	<a href="#">AT-30-43-MFi6</a>
	N Female - N Female	<a href="#">AT-30-N-FFi6</a>
	N Male - N Female	<a href="#">AT-30-N-MFi6</a>
	DIN Male - DIN Female	<a href="#">AT-30-D-MFi6</a>



3 dB Attenuator  
N Female - N Female Connector  
(AT-3-N-FFi6)



10 dB Attenuator  
N Male - N Female Connector  
(AT-10-N-MFi6)



20 dB Attenuator  
DIN Male - DIN Female Connector  
(AT-20-D-MFi6)



30 dB Attenuator  
4.3-10 Female - 4.3-10 Female Connector  
(AT-30-43-FFi6)

## Universal Bracket Kit

Description	Dimensions (HxWxL)	Part Number
<b>Universal Bracket Kit</b> Includes nylon plugs and screws Color: Silver (qty 5)	0.43" x 0.59" x 3.35"	<a href="#">42396A-17</a>



## DAS Antennas

To add spot coverage in high-traffic areas, CommScope offers a family of distributed antenna systems (DAS), mounting hardware and accessories that enhance wireless coverage. Designed for simple installation and minimal visual impact, our in-building and outdoor antennas feature a multi-band design that supports a wide range of frequencies with one small antenna.

CommScope's family of DAS antennas are designed to add spot coverage in difficult-to-cover areas such as buildings, parking garages, airports and stadiums. Each antenna is designed to support all current and future 5G applications and engineered for high performance. For example, with our low-PIM antennas, we pay particular attention to details. That's why we solder all joints and utilize only the best quality components — from copper elements to low-PIM connectors and pigtails — resulting in products that deliver homogeneous patterns and higher gain values where it matters.

## Stadium and Venue DAS Antennas

Description	Frequency Band (MHz)	HBW	VBW	Gain (dbi)	Dimensions (LxWxD)	Weight (lb)	RF (Connector)	Part Number
<b>Low PIM Outdoor Antennas (PIM -153 dBc)</b>								
Directional High Capacity Venue MIMO	617-960 1695-2700 3300-4200	30	30	14	29.9" x 29.9" x 4.7"	28	7-16 DIN Female	<a href="#">CMAX-3030S1-D-V53</a>
		30	30	14	29.8" x 29.8" x 4.6"	28	4.3-10 Female	<a href="#">CMAX-3030S1-43-V53</a>
	698-960 1710-2700	60	60	8	11.8" x 11.8" x 4.9"	6.4	7-16 DIN Female	<a href="#">CMAX-DM60-CPUSEV53</a>
							4.3-10 Female	<a href="#">CMAX-DM60-43-V53</a>
		30	64	11	24.0" x 13.4" x 5.0"	15.4	7-16 DIN Female	<a href="#">CMAX-DM30-CPUSEV53</a>
							4.3-10 Female	<a href="#">CMAX-DM30-43-V53</a>
		22	64	13	35.4" x 14.2" x 4.7"	16.1	7-16 DIN Female	<a href="#">CMAX-DM22S-D-V53</a>
							4.3-10 Female	<a href="#">CMAX-DM22S-43-V53</a>
	1690-2170 2200-2700	60	62-66	8	12.2" x 7.1" x 3.94"	3.5	4.3-10 Male	<a href="#">CMAX-DMH60-43-V53</a>
	1695-2700	30	64-68	11	16.2" x 11.3" x 5.2"	7.3	4.3-10 Male	<a href="#">CMAX-DMH30-43M-i53</a>
		30	27-36	14.5	25.6" x 12.9" x 4.4"	12.1	4.3-10 Female	<a href="#">CMAX-DMH3030-43V53</a>

Continued on next page



CMAX-3030S1-D-V53



CMAX-DM60-CPUSEV53



CMAX-DM30-CPUSEV53



CMAX-DMH60-43-V53



CMAX-DMH30-43M-i53



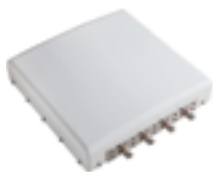
CMAX-DMH3030-43V53

## Stadium and Venue DAS Antennas continued

Description	Frequency Band (MHz)	HBW	VBW	Gain (dbi)	Dimensions (LxWxD)	Weight (lb)	RF (Connector)	Part Number
Low PIM Outdoor Antennas (PIM -153 dBc)								
Directional High Capacity Venue MIMO  *Under seat **Hand rail ***Over the head	1695-2700 3400-3800 4900-6000	20	60	12.5	15.7" x 9.8" x 3.3"	5.5	4.3-10 Female	CMAX-DMW2060-43i53
		30	20	14	16.1" x 16.5" x 3.5"	7.5	4.3-10 Female	CMAX-DMW3020-43i53**
		30	30	13	23.4" x 16.4" x 5.51"	17.2	4.3-10 Female	CMAX-DMW3030-43i53
		30	60	10.5	19.3" x 12.8" x 4.6"	10.5	4.3-10 Female	CMAX-DMW3060-43i53
		60	20	12.5	16.7" x 9.8" x 3.3"	5.5	4.3-10 Female	CMAX-DMW6020-43i53**
		60	60	7.5	8.4" x 6.5" x 3.7"	1.8	4.3-10 Female	CMAX-DMW6060-43i53*
		60	62-64	8	16.8" x 6.5" x 4.5"	5.7	4.3-10 Female	CMAX-DMW60X-43i53***
		60	60	7.5	16.2" x 6.5" x 4.5"	5.1	4.3-10 Female	CMAX-DMW60X1-43i53*
Directional	698-960 1710-2700	60	30	11	24.4" x 13.0" x 3.9"	10.4	7-16 DIN Female	CMAX-EXT-CPUSEi53
							4.3-10 Female	CMAX-EXT-43-i53
Low PIM In-Building Antennas (PIM -153 dBc)								
Directional	698-960 1710-2700	90/110	65/100	6	8.3" x 7.1" x 1.7"	1.0	N Female	CELLMAX-D-CPUSE-O
Directional MIMO	617-960 1695-2700 3300-4000 4800-6000	62-75	57-72	8	17.7" x 12.2" x 4.72	6.8	4.3-10 Female	CMAX-DMF-43-UW-i53



CMAX-DMW2060-43i53



CMAX-DMW3020-43i53



CMAX-DMW3060-43i53



CMAX-DMW6020-43i53



CMAX-DMW6060-43i53



CMAX-DMW60X-43i53



CMAX-EXT-CPUSEi53



CELLMAX-D-CPUSE-O



## In-Building DAS Antennas

Description	Frequency Band (MHz)	HBW	VBW	Dimensions (LxWxD)	Weight (lb)	RF (Connector)	Part Number
<b>Low PIM In-Building Antennas (PIM -153 dBc)</b>							
Directional	350-470 617-698 698-960 1710-2700	45-98	45-62	13.0" x 13.0" x 3.5"	4.2	N Female	<a href="#">CMAX-D-TCPUSEi53</a>
	698-960 1710-2700	73-98	57-76	10.3" x 7.1" x 2.4"	1.9	N Female	<a href="#">CMAX-D-CPUSEV53</a>
						4.3-10 Female	<a href="#">CMAX-D-43-V53</a>
	617-960 1695-2700 3300-4000 4800-6000	58-90	50-85	11.9" x 11.7" x 5.0"	5.3	N Female	<a href="#">CMAX-D-UW-i53</a>
						4.3-10 Female	<a href="#">CMAX-D-43-UW-i53</a>
Directional MIMO	698-960 1710-2700	64-75	58-72	12.5" x 8.3" x 2.8"	2.2	N Female	<a href="#">CMAX-DMF-CPUSEV53</a>
						4.3-10 Female	<a href="#">CMAX-DMF-43-V53</a>
	698-960 1695-2700 3300-4000	54-77	56-71	11.9" x 7.8" x 3.1"	2.4	N Female	<a href="#">CMAX-DMF-Wi53</a>
						4.3-10 Female	<a href="#">CMAX-DMF-43-Wi53</a>

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In-Building  
Directional  
(CMAX-D-CPUSEV53)



In-Building  
Directional  
(CMAX-D-43-V53)



In-Building  
Directional  
(CMAX-D-UW-i53)



In-Building  
Directional MIMO  
(CMAX-DMF-CPUSEV53)



In-Building  
Directional MIMO  
(CMAX-DMF-Wi53)



In-Building  
Directional MIMO  
(CMAX-DMF-43-UW-i53)

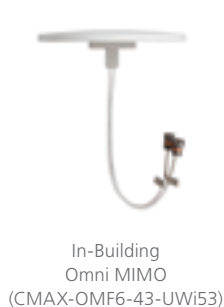
## In-Building DAS Antennas continued

Description	Frequency Band (MHz)	HBW	VBW	Dimensions (LxWxD)	Weight (lb)	RF (Connector)	Part Number
<b>Low PIM In-Building Antennas</b> (PIM -153 dBc)							
Omni	617-6000	360	NA	3.23" x 8.1"	0.9	N Female	CMAX-O-UW-i53**
						4.3-10 Female	CMAX-O-43-UW-i53**
	698-960 1695-2700 3300-4200	360	NA	0.71" x 12.1"	1.8	4.3-10 Female	CMAX-OUS-43-i53
	1695-2700 3300-4200 4900-6000	360	NA	0.47" x 6.7"	0.6	4.3-10 Female	CMAX-OUS-UW43-i53
Omni MIMO	617-6000	360	NA	0.71" x 10.5"	1.1	4.3-10 Female	CMAX-OMF6-43-UWi53
				0.94" x 14.2"	2.1	4.3-10 Female	CMAX-OMF7-43-UWi53
				2.56" x 8.1"	1.2	4.3-10 Female	CMAX-OMF8-43-UWi53
	698-960 1710-2700	360	NA	2.56" x 8.2"	1.0	N Female	CMAX-OMF1-CPUSEV53
						4.3-10 Female	CMAX-OMF1-43-V53
				4.69" x 8.0"	1.1	N Female	CMAX-OMH-CPUSEi53*
						4.3-10 Female	CMAX-OMH-43-i53*
				6.1" x 8.7"	1.7	N Female	CMAX-OMF2-CPUSEi53
						4.3-10 Female	CMAX-OMF2-43-i53
	1695-2700 3300-4200 4900-6000	360	NA	4.25" x 6.9"	1.0	N Female	CMAX-OMF3-UWi53
						4.3-10 Female	CMAX-OMF3-43-UWi53

\* V-POL Port: 698–960 and 1710–2700 MHz / H-POL Port: 1710–2700 MHz (LB:SISO), (HB:MIMO)

\*\*Recessed ceiling mount kit sold separately. (PN: 7760591)

Continued on next page



## In-Building DAS Antennas continued

Description	Frequency Band (MHz)	HBW	VBW	Dimensions (LxWxD)	Weight (lb)	RF (Connector)	Part Number
<b>In-Building Antennas</b> PIM -150 dBc							
Omni	350-470 698-960 1710-6000	360	NA	5.91" x 9.8"	2.1	N Female	<a href="#">CELLMAX-O-TCPUSEWi</a>
<b>In-Building Antennas</b> PIM -140 dBc							
Directional	698-960 1710-2700	54-128	38-85	8.3" x 7.1" x 1.7"	1.4	N Female	<a href="#">CELLMAX-D-CPUSEi</a>
						4.3-10 Female	<a href="#">CELLMAX-D-43i</a>
Omni	698-960 1710-2700	360	NA	3.35" x 7.3"	0.7	N Female	<a href="#">CELLMAX-O-CPUSEi</a>
						4.3-10 Female	<a href="#">CELLMAX-O-43i</a>
<b>In-Building Antennas</b>							
Directional	698-960 1710-2700	54-128	38-85	8.3" x 7.1" x 1.7"	1.0	N Female	<a href="#">CELLMAX-D-CPUSE</a>
Omni	698-960 1710-2700	360	NA	3.35" x 7.3"	0.7	N Female	<a href="#">CELLMAX-O-CPUSE</a>



In-Building  
Omni  
(CELLMAX-O-TCPUSEWi)



In-Building  
Directional  
(CELLMAX-D-43i)



In-Building  
Omni  
(CELLMAX-O-43i)



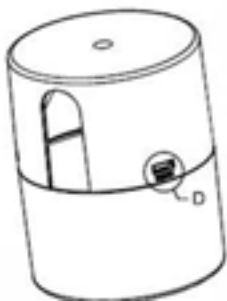
In-Building  
Directional  
(CELLMAX-D-CPUSE)



In-Building  
Omni  
(CELLMAX-O-CPUSE)

## Mounting Kits

Description	Part Number
<b>Ceiling Mounting Kits</b>	
For all SISO & MIMO Omni-Antennas	<a href="#">7705125</a>
For CMAX-O-UW-i53 and CMAX-O-43-UW-i53	<a href="#">7760591</a>
<b>Pole Mounting Kit</b>	
For Stadium Antennas	<a href="#">7814722</a>



Ceiling Mounting Kit  
(7705125)



Ceiling Mounting Kit  
(7760591)



Pole Mounting Kit  
(7814722)

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