

In-building Wireless Passive Products and Antennas

October 2020 Ordering Guide



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Passive Devices

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VEX files for all CommScope in-building wireless passive products and antennas are available directly from iBwave.

Upon request to iBwave, CommScope will be notified to approve access to the CommScope components database.

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 in the 400 MHz TETRA, 450/700/800 LTE band, 900 MHz cellular/GSM band, PCS/DCS-1800 band, 3G and 4G band to 2700 MHz, 5G band to 3500MHz and 4900MHz and LAA band to 6000MHz. 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
Tappers 340–960/1710–2700 MHz			
6 dB		7-16 DIN Female	CT-6-TCPUSE-Di6
8 dB		7-16 DIN Female	CT-8-TCPUSE-Di6
10 dB	-160dBc	7-16 DIN Female	CT-10-TCPUSE-Di6
13 dB	-1000bC	7-16 DIN Female	CT-13-TCPUSE-Di6
15 dB		7-16 DIN Female	CT-15-TCPUSE-Di6
20 dB		7-16 DIN Female	CT-20-TCPUSE-Di6
Tappers 340–6000 MHz			
5 dB		4.3-10 Female	CT-5-TUW-43-i6
3 db		N Female	CT-5-TUW-NI6
6 dB		4.3-10 Female	CT-6-TUW-43-i6
6 UB	N Female	N Female	CT-6-TUW-Ni6
8 dB		4.3-10 Female	CT-8-TUW-43-i6
o ub		N Female	CT-8-TUW-Ni6
10 dB		4.3-10 Female	CT-10-TUW-43-i6
10 dB	-163dBc for N type,	N Female	CT-10-TUW-Ni6
12 - 10	-165dBc for 4.3-10 type	4.3-10 Female	CT-13-TUW-43-i6
13 dB		N Female	CT-13-TUW-Ni6
45 10		4.3-10 Female	CT-15-TUW-43-i6
15 dB		N Female	CT-15-TUW-Ni6
20 In		4.3-10 Female	CT-20-TUW-43-i6
20 dB		N Female	CT-20-TUW-Ni6
20 In		4.3-10 Female	CT-30-TUW-43-i6
30 dB		N Female	CT-30-TUW-Ni6





10 dB Tapper 4.3-10 Female Connector (CT-10-TUW-43-i6)



10 dB Tapper N Female Connector (CT-10-TUW-Ni6)

Air Directional Couplers

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

Description	PIM	Connector Type	Part Number	
Air Directional Couplers 555-2700 MHz				
5 dB		7-16 DIN Female	C-5-CPUSE-D-Ai6	
6 dB		7-16 DIN Female	C-6-CPUSE-D-Ai6	
8 dB		7-16 DIN Female	C-8-CPUSE-D-Ai6	
10 dB	-160dBc	7-16 DIN Female	C-10-CPUSE-D-Ai6	
13 dB	-1600BC	7-16 DIN Female	C-13-CPUSE-D-Ai6	
15 dB		7-16 DIN Female	C-15-CPUSE-D-Ai6	
20 dB		7-16 DIN Female	C-20-CPUSE-D-Ai6	
30 dB		7-16 DIN Female	C-30-CPUSE-D-Ai6	
Air Directional (555-6000 MHz	Couplers			
5 dB		N Female	C-5-UW-N-Ai6	
J UB		4.3-10 Female	C-5-UW-43-Ai6	
6 dB		N Female	C-6-UW-N-Ai6	
О ИВ		4.3-10 Female	C-6-UW-43-Ai6	
8 dB		N Female	C-8-UW-N-Ai6	
O UD		4.3-10 Female	C-8-UW-43-Ai6	
10 dB	-163dBc for N	N Female	C-10-UW-N-Ai6	
10 0Б	type,	4.3-10 Female	C-10-UW-43-Ai6	
13 dB	-165dBc	N Female	C-13-UW-N-Ai6	
13 UD	for 4.3- 10 type	4.3-10 Female	C-13-UW-43-Ai6	
15 dB	3,1	N Female	C-15-UW-N-Ai6	
I J UD		4.3-10 Female	C-15-UW-43-Ai6	
20 dB		N Female	C-20-UW-N-Ai6	
20 UD		4.3-10 Female	C-20-UW-43-Ai6	
20 dp		N Female	C-30-UW-N-Ai6	
30 dB		4.3-10 Female	C-30-UW-43-Ai6	

000 2700 11112			
5 dB		7-16 DIN Female	C-5-CPUSE-D-Ai6
6 dB		7-16 DIN Female	C-6-CPUSE-D-Ai6
8 dB		7-16 DIN Female	C-8-CPUSE-D-Ai6
10 dB	1.CO-ID-	7-16 DIN Female	C-10-CPUSE-D-Ai6
13 dB	-160dBc	7-16 DIN Female	C-13-CPUSE-D-Ai6
15 dB		7-16 DIN Female	C-15-CPUSE-D-Ai6
20 dB		7-16 DIN Female	C-20-CPUSE-D-Ai6
30 dB		7-16 DIN Female	C-30-CPUSE-D-Ai6
Air Directional (555-6000 MHz	Couplers		
5 dB		N Female	C-5-UW-N-Ai6
J UB		4.3-10 Female	C-5-UW-43-Ai6
6 dB		N Female	C-6-UW-N-Ai6
о ив		4.3-10 Female	C-6-UW-43-Ai6
8 dB		N Female	C-8-UW-N-Ai6
o ub		4.3-10 Female	C-8-UW-43-Ai6
10 dB	-163dBc for N	N Female	C-10-UW-N-Ai6
TO UB	type,	4.3-10 Female	C-10-UW-43-Ai6
13 dB	-165dBc	N Female	C-13-UW-N-Ai6
I D UD	for 4.3- 10 type	4.3-10 Female	C-13-UW-43-Ai6
15 dB	. 51	N Female	C-15-UW-N-Ai6
1 J UD		4.3-10 Female	C-15-UW-43-Ai6
20 dB		N Female	C-20-UW-N-Ai6
ZU UD		4.3-10 Female	C-20-UW-43-Ai6
20 dp		N Female	C-30-UW-N-Ai6
30 dB		4.3-10 Female	C-30-UW-43-Ai6

Description	PIM	Connector Type	Part Number
ValuDAS® Air Di 698–2700 MHz	rectional C	Couplers	
6 dB		N Female	VD-C6-CPUSE-N-A
8 dB		N Female	VD-C8-CPUSE-N-A
10 dB	-155dBc	N Female	VD-C10-CPUSE-N-A
13 dB	-133080	N Female	VD-C13-CPUSE-N-A
15 dB		N Female	VD-C15-CPUSE-N-A
20 dB		N Female	VD-C20-CPUSE-N-A

PIM

-160dBc

Low PIM Air Directional Couplers

Description

6 dB

10 dB

15 dB

20 dB

30 dB

340-2700 MHz

Connector Type

7-16 DIN Female

N Female

Part Number

C-6-TCPUSE-D-Ai6

C-6-TCPUSE-N-Ai6

C-10-TCPUSE-D-Ai6

C-10-TCPUSE-N-Ai6

C-15-TCPUSE-D-Ai6

C-15-TCPUSE-N-Ai6

C-20-TCPUSE-D-Ai6

C-20-TCPUSE-N-Ai6

C-30-TCPUSE-D-Ai6

C-30-TCPUSE-N-Ai6



10 dB Coupler **DIN Female Connector** (C-10-CPUSE-D-Ai6)



10 dB Coupler N Female Connector (C-10-UW-N-Ai6)



10 dB Coupler 4.3-10 N Female Connector (C-10-UW-43-Ai6)



6 dB Low PIM Coupler **DIN Female Connector** (C-6-TCPUSE-D-Ai6)



6 dB Low PIM Coupler N Female Connector (C-6-TCPUSE-N-Ai6)



8 dB ValuDAS Coupler N Female Connector (VD-C8-CPUSE-N-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
	4.3-10 Female	H-4X4-CPUSE-43-Ai6
Low PIM 4x4 High Power Hybrid Matrix 555-2700 MHz, 6.1 dB	N Female	H-4X4-CPUSE-NAi6
	7-16 DIN Female	H-4X4-CPUSE-DAi6
Low PIM 4x4 High Power Hybrid Matrix 555 - 6000 MHz, 6.2 dB	4.3-10 Female	H-4x4-UW-43-Ai6
Low PIM 3x3 High Power Hybrid Matrix 555-2700 MHz, 5.0 dB	4.3-10 Female	H-3X3-CPUSE-43-Ai6



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



(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				
	-160dBc for N		7-16 DIN Female	H-3-CPUSE-D-Ai6
3.1 dB	type and DIN type, -162dBc	555–2700 MHz	N Female	H-3-CPUSE-N-Ai6
	for 4.3-10 type		4.3-10 Female	H-3-CPUSE-43-Ai6
Low PIM Hybrid Air Dielectric Co	uplers			
	-163dBc for N		N Female	H-3-UW-N-Ai6
3.1 dB	type, -165dBc for 4.3-10 type	555–6000 MHz	4.3-10 Female	H-3-UW-43-Ai6
ValuDAS Hybrid Couplers				
2 1 dD	-155dBc	698–2700 MHz	N Female	VD-H2X2-CPUSE-N-A
3.1 dB		578–3800 MHz	4.3-10 Female	VD-H2X2-CPUSEW-43
ValuDAS Air Dielectric Couplers				
6 dB				VD-C6-CPUSEW-43-A
8 dB			4.3-10 Female	VD-C8-CPUSEW-43-A
10 dB				VD-C10-CPUSEW-43-A
13 dB	-155dBc	578–3800 MHz		VD-C13-CPUSEW-43-A
15 dB				VD-C15-CPUSEW-43-A
20 dB				VD-C20-CPUSEW-43-A
30 dB				VD-C30-CPUSEW-43-A





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
Reactive Power Splitters 555–2700 MHz			
Two-Way	-160 dBc	7-16 DIN Female	S-2-CPUSE-H-Di6
Three-Way	-160 dBc	7-16 DIN Female	S-3-CPUSE-H-Di6
Four-Way	-160 dBc	7-16 DIN Female	S-4-CPUSE-H-Di6
Low Power Splitters 555–2700 MHz			
	-130 dBc	N Female	S-2-CPUSE-L-N
Two-Way	-150 dBc	N Female	S-2-CPUSE-L-Ni
	-153 dBc	4.3-10 Female	S-2-CPUSE-L-43-i53
	-130 dBc	N Female	S-3-CPUSE-L-N
Three-Way	-150 dBc	N Female	S-3-CPUSE-L-Ni
	-153 dBc	4.3-10 Female	S-3-CPUSE-L-43-i53
	-130 dBc	N Female	S-4-CPUSE-L-N
Four-Way	-150 dBc	N Female	S-4-CPUSE-L-Ni
	-153 dBc	4.3-10 Female	S-4-CPUSE-L-43-i53
ValuDAS Reactive Power Splitters 578–3800 MHz			
Two-Way	-155 dBc	4.3-10 Female	VD-S2-CPUSEW-H-43
Three-Way	-155 dBc	4.3-10 Female	VD-S3-CPUSEW-H-43
Four-Way	-155 dBc	4.3-10 Female	VD-S4-CPUSEW-H-43
ValuDAS Reactive Power Splitters 698–2700 MHz			·
Two-Way	-155 dBc	N Female	VD-S2-CPUSE-H-N
Three-Way	-155 dBc	N Female	VD-S3-CPUSE-H-N
Four-Way	-155 dBc	N Female	VD-S4-CPUSE-H-N



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)

Power Splitters continued

Description	PIM	Frequency Band	Connector Type	Part Number
Multiband Low PIM Reactive High	n Power Splitt	ers		
Tive Mey			7-16 DIN Female	S-2-TCPUSE-H-Di6
Two-Way		340–2700 MHz	N Female	S-2-TCPUSE-H-Ni6
TI 14/	460 10	240, 2700 MIL	7-16 DIN Female	S-3-TCPUSE-H-Di6
Three-Way	-160 agc	-160 dBc 340–2700 MHz	N Female	S-3-TCPUSE-H-Ni6
Four-Way		340–2700 MHz	7-16 DIN Female	S-4-TCPUSE-H-Di6
			N Female	S-4-TCPUSE-H-Ni6
Ultra Wideband Low PIM Reactive	e High Power	Splitters		
T 14/		FFF 6000 NAU	N Female	S-2-UW-H-Ni6
Two-Way	-163dBc	555–6000 MHz	4.3-10 Female	S-2-UW-H-43-i6
TI \\\	for N type,	FFF 6000 NAU	N Female	S-3-UW-H-Ni6
Three-Way	-165dBc for	-165dBc for 555-6000 MHz	4.3-10 Female	S-3-UW-H-43-i6
F \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	4.3-10 type	FFF COOO NALL	N Female	S-4-UW-H-Ni6
Four-Way		555–6000 MHz	4.3-10 Female	S-4-UW-H-43-i6



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-N-i6)

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
Terminations 0–6000 MHz		
	N Male	T-2-UW-NM
2 Watt	N Female	T-2-UW-NF
Z VVdll	4.3-10 Male	T-2-UW-43-M
	4.3-10 Female	T-2-UW-43-F
	N Male	T-10-UW-NM
10 \\/a++	N Female	T-10-UW-NF
10 Watt	4.3-10 Male	T-10-UW-43-M
	4.3-10 Female	T-10-UW-43-F
	N Male	T-25-UW-NM
25.14/-++	N Female	T-25-UW-NF
25 Watt	4.3-10 Male	T-25-UW-43-M
	4.3-10 Female	T-25-UW-43-F
	N Male	T-50-UW-NM
50.14/	N Female	T-50-UW-NF
50 Watt	4.3-10 Male	T-50-UW-43-M
	4.3-10 Female	T-50-UW-43-F
	N Male	T-100-UW-NM
	N Female	T-100-UW-NF
100 Watt	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)



30 Watt 4.3-10 Female Connector (T-30-UW-43-M-i6)



30 Watt 4.3-10 Male Connector (T-30-UW-43-F-i6)



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

Description	PIM	Connector Type	Part Number		
Low PIM Terminations					
10 Watt		7-16 DIN Female	T-10-DFi6		
		7-16 DIN Male	T-10-DMi6		
DIN support 555-2700MHz,		N Female	T-10-UW-NHi6		
N and 4.3-10 support		N Male	T-10-UW-NMi6		
340-6000MHz		4.3-10 Female	T-10-UW-43-F-i6		
		4.3-10 Male	T-10-UW-43-M-i6		
		7-16 DIN Female	T-30-DFi6		
30 Watt		7-16 DIN Male	T-30-DMi6		
DIN support 555-2700MHz,		N Female	T-30-UW-NFi6		
N and 4.3-10 support		N Male	T-30-UW-NMi6		
340-6000MHz		4.3-10 Female	T-30-UW-43-F-i6		
		4.3-10 Male	T-30-UW-43-M-i6		
	PIM: -163dBc for N, -160dBc for DIN, -165dBc for 4.3-10	7-16 DIN Female	T-50-DFi6		
50 Watt		7-16 DIN Male	T-50-DMi6		
DIN support 555-2700MHz,		N Female	T-50-UW-NFi6		
N and 4.3-10 support		N Male	T-50-UW-NMi6		
0-6000MHz		4.3-10 Female	T-50-UW-43-F-i6		
		4.3-10 Male	T-50-UW-43-M-i6		
		7-16 DIN Female	T-100-DFi6		
100 Watt		7-16 DIN Male	T-100-DMi6		
DIN support 555-2700MHz,		N Female	T-100-UW-NFi6		
N and 4.3-10 support		N Male	T-100-UW-NMi6		
0-6000MHz		4.3-10 Female	T-100-UW-43-F-i6		
		4.3-10 Male	T-100-UW-43-M-i6		
		7-16 DIN Female	T-200-DFi6		
200 Watt		7-16 DIN Male	T-200-DMi6		
DIN support 555-2700MHz,		N Female	T-200-UW-NFi6		
N and 4.3-10 support		N Male	T-200-UW-NMi6		
0-6000MHz		4.3-10 Female	T-200-UW-43-F-i6		
		4.3-10 Male	T-200-UW-43-M-i6		

Attenuators

Description	Connector Type	Part Number			
Attenuators 555-2700MHz, -160dBc for N and DIN, -162dBc for DIN					
3 dB	4.3-10 Female to Female	AT-3-43-FFi6			
3 UB	N Female - N Female	AT-3-N-FFi6			
	4.3-10 Female to Female	AT-6-43-FFi6			
	4.3-10 Male to Female	AT-6-43-MFi6			
6 dB	N Female - N Female	AT-6-N-FFi6			
	N Male - N Female	AT-6-N-MFi6			
	DIN Male - DIN Female	AT-6-D-MFi6			
	4.3-10 Female to Female	AT-10-43-FFi6			
	4.3-10 Male to Female	AT-10-43-MFi6			
10 dB	N Female - N Female	AT-10-N-FFi6			
	N Male - N Female	AT-10-N-MFi6			
	DIN Male - DIN Female	AT-10-D-MFi6			
	4.3-10 Female to Female	AT-15-43-FFi6			
	4.3-10 Male to Female	AT-15-43-MFi6			
15 dB	N Female - N Female	AT-15-N-FFi6			
	N Male - N Female	AT-15-N-MFi6			
	DIN Male - DIN Female	AT-15-D-MFi6			
	4.3-10 Female to Female	AT-20-43-FFi6			
	4.3-10 Male to Female	AT-20-43-MFi6			
20 dB	N Female - N Female	AT-20-N-FFi6			
	N Male - N Female	AT-20-N-MFi6			
	DIN Male - DIN Female	AT-20-D-MFi6			
	4.3-10 Female to Female	AT-30-43-FFi6			
	4.3-10 Male to Female	AT-30-43-MFi6			
30 dB	N Female - N Female	AT-30-N-FFi6			
	N Male - N Female	AT-30-N-MFi6			
	DIN Male - DIN Female	AT-30-D-MFi6			



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) (in)/(mm)	Part Number
Universal Bracket Kit Includes nylon plugs and screws Color: Silver (qty 5)	0.43" x 0.59" x 3.35" /11 x 15 x 85	42396A-17



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) (in)/(mm)	Weight (lb)/(kg)	RF (Connector)	Part Number
Low PIM Outdoor	Antennas (PIM -	-153 dBc)					
Directional High	617-960 1695-2700 3300-4000 4800-6000	64-75	57-73	7.8	17.95" x 12.83" x 4.56"/ 456 x 326 x 116	9.7/4.4	4.3-10 Female	CMAX-DM60-43-UWI53
Capacity Venue MIMO	617-960 1695-2700 3300-4000 4800-6000	26-40	62-69	10.5	37.00" x 18.89" x 9.25"/ 940 x 480 x 235	17.4/ 7.9	4.3-10 Female	CMAX-DM30-43-UWi53









CMAX-DM30-43-UWI53

Stadium and Venue DAS Antennas continued

Description	Frequency Band (MHz)	HBW	VBW	Gain (dbi)	Dimensions (LxWxD) (in)/(mm)	Weight (lb)/(kg)	RF (Connector)	Part Number		
Low PIM Outd	oor Antennas	(PIM -153	dBc)							
		20	60	12.5	15.7" x 9.8" x 3.3"/ 399 x 249 x 84	5.5/2.5	4.3-10 Female	CMAX-DMW2060-43i53		
		30	20	14	16.1" x 16.5" x 3.5"/ 409 x 419 x 89	7.5/3.4	4.3-10 Female	CMAX-DMW3020-43i53**		
Directional High Capacity		30	30	13	23.4" x 16.4" x 5.51"/ 594 x 417 x 140	17.2/7.8	4.3-10 Female	CMAX-DMW3030-43i53		
Venue MIMO	1695-2700	30	60	10.5	19.3" x 12.8" x 4.6"/ 490 x 325 x 117	10.5/4.8	4.3-10 Female	CMAX-DMW3060-43i53		
*Under seat **Hand rail	3400-3800 4900-6000	60	20	12.5	16.7" x 9.8" x 3.3"/ 424 x 249 x 84	5.5/2.5	4.3-10 Female	CMAX-DMW6020-43i53**		
***Over the head		60	60	7.5	8.4" x 6.5" x 3.7"/ 213 x 165 x 94	1.8/0.8	4.3-10 Female	CMAX-DMW6060-43i53*		
			60	62-64	8	16.8" x 6.5" x 4.5"/ 427 x 165 x 114	5.7/2.6	4.3-10 Female	CMAX-DMW60X-43I53***	
						60	60	7.5	16.2" x 6.5" x 4.5"/ 412 x 165 x 114	5.1/2.3
	698-960				24.4" x 13.0" x 3.9"/		7-16 DIN Female	CMAX-EXT-CPUSEi53		
Directional	1710-2700	60	30	11	620 x 330 x 99	10.4/4.7	4.3-10 Female	CMAX-EXT-43-i53		
Directional MIMO	698-960 1695-2700 3300-4000	67-90	69-73	7.5	18.03" x 17.71" x 13.07"/ 458 x 332 x 100	13.66/ 6.2	4.3-10 Female	CMAX-DMF4-43-Wi53		
Low PIM In-Bu	ilding Antenna	as								
Directional	698-960 1710-2700	60/110	45/80	6	8.3" x 7.1" x 1.7"/ 211 x 180 x 43	0.9/0.4	N Female	CELLMAX-D-CPUSE-O		



In-Building DAS Antennas

Description	Frequency Band (MHz)	HBW	VBW	Dimensions (LxWxD) (in)/(mm)	Weight (lb)/(kg)	RF (Connector)	Part Number				
Low PIM In-Building Antennas (PIM -153 dBc)											
	350–470 617-698 698–960 1710–2700	45-98	45-62	13.0" x 13.0" x 3.5"/ 330 x 330 x 89	4.2/1.9	N Female	CMAX-D-TCPUSEi53				
D'andia d	698-960	72.00	3-98 57-76	10.3" x 7.1" x 2.4"/ 262 x 180 x 61 11.9" x 11.7" x 5.0"/	1.9/0.9	N Female	CMAX-D-CPUSEV53				
Directional	1710-2700	/3-98			1.9/0.9	4.3-10 Female	CMAX-D-43-V53				
	617-960 1695-2700	58-90	50-85		5.3/2.4	N Female	CMAX-D-UW-i53				
	3300-4000 4800-6000	36-90	30-63	302 x 297 x 127		4.3-10 Female	CMAX-D-43-UW-i53				
Directional MIMO	3300-3800	63	30	8.26" x 8.26" x 1.89"/ 210 x 210 x 48	1.9/ 0.9	4.3-10 Female	CMAX-DMF3-43-CI53				









In-Building Directional MIMO (CMAX-DMF3-43-CI53)

In-Building DAS Antennas continued

Description	Frequency Band (MHz)	HBW	VBW	Dimensions (LxWxD) (in)/(mm)	Weight (lb)/(kg)	RF (Connector)	Part Number
Low PIM In-Building A	ntennas (PIM -1	53 dBc)					
	617-6000	360	NA	3.23" x 8.1"/	0.9/0.4	N Female	CMAX-O-UW-i53**
	617-0000	300	INA	82 x 205	0.9/0.4	4.3-10 Female	CMAX-O-43-UW-i53**
Omni	698-960 1695-2700 3300-4200	360	NA	0.71" x 12.1"/ 18 x308	1.8/0.8	4.3-10 Female	CMAX-OUS-43-i53
	1695-2700 3300-4200 4900-6000	360	NA	0.47" x 6.7"/ 12 x 170	0.6/0.3	4.3-10 Female	CMAX-OUS-UW43-i53
				0.71" x 10.5"/ 2.5 x 267	1.1/0.5	4.3-10 Female	CMAX-OMF6-43-UWi53
				0.94" x 14.2"/ 24 x 361	2.1/1.0	4.3-10 Female	CMAX-OMF7-43-UWi53
	617-6000	360	NA	2.56" x 8.1"/ 65 x 206	1.32/0.6	4.3-10 Female	CMAX-OMF8-43-UWi53
Omni MIMO				8.66" x 0.71"/	1.45/ 0.7	N Female	CMAX-OUS1-UW-I53
OTTINI IVIIIVIO				220 x 18	1.45/ 0.7	4.3-10 Female	CMAX-OUS1-UW43-I53
	1695-2700 3300-4200 4800-6000	00 360 NA		8.27" x 0.55"/ 210 x 14	1.54/ 0.7	4.3-10 Female	CMAX-OMF9-43-UWi53
	1695-2700			4.25" x 6.9"/		N Female	CMAX-OMF3-UWi53
	3300-4200 4900-6000	360	NA	108 x 175	1.0/0.5	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 seperately. (PN: 7760591)



In-Building DAS Antennas continued

Description	Frequency Band (MHz)	HBW	VBW	Dimensions (LxWxD) (in)/(mm)	Weight (lb)	RF (Connector)	Part Number				
In-Building Antennas PIM -150 dBc											
Omni	350-470 698-960 1710-6000	360	NA	5.91" x 9.8"/ 150 x 249	2.1/1.0	N Female	CELLMAX-O-TCPUSEWi				
In-Building Antennas	In-Building Antennas PIM -140 dBc										
Directional	698–960	54-128	38-85	8.3" x 7.1" x 1.7"/	1 22/0 6	N Female	CELLMAX-D-CPUSEi				
Directional	1710–2700	54-128	38-83	211 x 180 x 43	1.32/0.6	4.3-10 Female	CELLMAX-D-43i				
Omni	698–960	260	NA	3.35" x 7.3"/	0.7/0.3	N Female	CELLMAX-O-CPUSEi				
Omini	1710–2700	360	INA	85 x 185	0.7/0.3	4.3-10 Female	CELLMAX-O-43i				
In-Building Antennas											
Directional	698-960 1710-2700	54-128	38-85	8.3" x 7.1" x 1.7"/ 211 x 180 x 43	1.0/0.5	N Female	CELLMAX-D-CPUSE				
Omni	698-960 1710-2700	360	NA	3.35" x 7.3"/ 85 x 185	0.7/0.3	N Female	CELLMAX-O-CPUSE				





(CELLMAX-D-43i)







In-Building Directional (CELLMAX-D-CPUSE)

In-Building Omni (CELLMAX-O-CPUSE)

Log Periodic Outdoor Antenna

Description	Frequency Band (MHz)	HBW	VBW	Gain	Dimensions (LxWxD) (in)/(mm)	Weight (lb)/(kg)	RF (Connector)	Part Number					
Low PIM Outdoo	Low PIM Outdoor Antennas PIM -153 dBc												
Directional	698-3800	69-92	51-66	9	17.32" x 8.26" x 2.56"/ 440 x 210 x 65	1.16/ 0.53	4.3-10 Female	CMAX-YG-CPUSEW-I53					



Mounting Kits

Description	Part Number
Ceiling Mounting Kits	
For Omni-Directional MIMO Antennas	7814094
For CMAX-O-UW-i53 and CMAX-O-43-UW-i53	7760591
Pole Mounting Kit	
For Stadium Antennas	7814722



Antenna Clamps

Description	Part Number
Antenna Clamps	
Omni Indoor Antenna Clamp 1	7705125
Clamp for Cell-Max™ Omnidirectional In-building Antennas	7543994



Ceiling Mounting Kit (7760591)

Omni Indoor Antenna Clamp (7705125)



Cell-Max[™] Omindirectional Clamp (7543994)

Ceiling Matrix In-house Antennas

		Antenna	Ceiling Type					
Material	Description	with ground plane	Suspended Panel Ceiling Non-metallic Ceiling	Exposed Concrete Closed ceiling, no access from above	Metal Ceiling Impact on antenna performance	Plaster Ceiling Closed ceiling, no access from above		
Omni-Directional SIS	O Indoor Antennas	•				'		
CELLMAX-O-CPUSE	698-960/1710-2700, N, FEMALE	Yes		7543994/7846351*	Yes/7846351*	7846351*		
CELLMAX-O-CPUSEi	698-960/1710-2700, IMD, N, FEMALE	Yes	√	7543994/7846351*	Yes/7846351*	7846351*		
CELLMAX-O-TCPUSEWi	350-960/1710-6000, IMD, N, FEMALE	Yes		7705125/7846351*	7705125/7846351*	7846351*		
CELLMAX-O-43i	698-960/1710-2700, 4.3-10, FEMALE	Yes		7543994/7846351*	Yes/7846351*	7846351*		
CMAX-O-UW-i53	617-6000, N, FEMALE	Yes	√	7705125/7846351*	Yes/7846351*	7846351*		
CMAX-O-43-UW-i53	617-6000, LOW PIM, 4.3-10, FEMALE	Yes		7705125/7846351*	Yes/7846351*	7846351*		
CMAX-OUS-43-i53	698-4200, LOW PIM, 4.3-10, FEMALE	No		Yes/7846351*	7705125/7846351*	7846351*		
CMAX-OUS-UW43-i53	1695-6000, LOW PIM, 4.3-10, FEMALE	No	/	Yes/7846351*	7705125/7846351*	7846351*		
CMAX-OUS1-UW43-i53	617-6000, LOW PIM, 4.3-10, FEMALE	No		Yes/7846351*	7705125/7846351*	7846351*		
CMAX-OUS1-UW-i53	617-6000, N, FEMALE	No		Yes/7846351*	7705125/7846351*	7846351*		
			*green tick - this antenna can be installed directly to this ceiling type. No additional parts needed.	No additional parts needed. For all other antennas, please refer to the installation adapters."	No additional parts needed. For all other antennas, please refer to the installation adapters. If directly installed on metal ceiling (w/o adapter), VSWR on low bands will be higher than 2.	For these antennas, please refer to the installation adapters.		

Ceiling Matrix In-house Antennas

Material		Antenna	Ceiling Type					
	Description	with ground plane	Suspended Panel Ceiling Non-metallic Ceiling	Exposed Concrete Closed ceiling, no access from above	Metal Ceiling Impact on antenna performance	Plaster Ceiling Closed ceiling, no access from above		
Omni-Directional MI	MO Indoor Antennas		'	'	'	'		
CMAX-OMH-CPUSEi53	H-BAND, 698-960/1710–2700, N, FEMALE	Yes		7705125/7846351*	Yes/7846351*	7846351*		
CMAX-OMF1-CPUSEV53	698-960/1710-2700, LOW PIM, N, FEMALE	No		7705125/7846351*	7705125/7846351*	7846351*		
CMAX-OMH-CPUSEi53	H-BAND, 698-960/1710–2700, N, FEMALE	Yes		7705125/7846351*	Yes/7846351*	7846351*		
CMAX-OMF1-43-V53	698-960/1710-2700, LOW PIM, 4.3-10, FEMALE	No	_/	7705125/7846351*	7705125/7846351*	7846351*		
CMAX-OMH-43-i53	H-BAND, 698-960/1710–2700, 4.3-10, FEMALE	Yes		7705125/7846351*	Yes/7846351*	7846351*		
CMAX-OMF3-UWi53	1695-6000, N, FEMALE	No	√	7705125/7846351*	7705125/7846351*	7846351*		
CMAX-OMF3-43-UWi53	1695-6000, 4.3-10, FEMALE	No	√	7705125/7846351*	7705125/7846351*	7846351*		
CMAX-OMF4-43M-i53	698-960/1710-2700, 4.3-10, MALE	No	/	7705125/7846351*	7705125/7846351*	7846351*		
CMAX-OMF2-CPUSEi53	698-960/1710-2700, N, FEMALE	No	/	7705125/7846351*	7705125/7846351*	7846351*		
CMAX-OMF2-43-i53	698-960/1710-2700, 4.3-10, FEMALE	No	√	7705125/7846351*	7705125/7846351*	7846351*		
CMAX-OMF6-43-UWi53	617-6000, LOW PIM, 4.3-10, FEMALE	No	√	Yes/7846351*	7705125/7846351*	7846351*		
CMAX-OMF7-43-UWi53	617-6000, LOW PIM, 4.3-10, FEMALE	No	√	Yes/7846351*	7705125/7846351*	7846351*		
CMAX-OMF8-43-UWi53	617-6000, LOW PIM, 4.3-10, FEMALE	No	√	7705125/7846351*	7705125/7846351*	7846351*		
CMAX-OMF9-43-UWi53	1695-6000, LOW PIM, 4.3-10, FEMALE	No	√	Yes/7846351*	7705125/7846351*	7846351*		
			*green tick - this antenna can be installed directly to this ceiling type. No additional parts needed.	No additional parts needed. For all other antennas, please refer to the installation adapters."	No additional parts needed. For all other antennas, please refer to the installation adapters. If directly installed on metal ceiling (w/o adapter), VSWR on low bands will be higher than 2.	For these antennas, please refer to the installation adapters.		

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CO-114007.1-EN (10/20)