

UWB Passive Products Ordering Guide



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Our UltraWideband (UWB) passives support all carrier and private LTE bands from 600 MHz to 6 GHz, as well as Wi-Fi 6.

UltraWideband components futureproof your design as radio networks continue to evolve in sub-6GHz, including CBRS, C Band and LAA. Westell passives use flanged connections, which are superior for assured PIM ratings versus screw-in connectors that can easily be torqued out of spec in the field.




Westell’s UWB passive products are available in the following categories:

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UWB Terminations


UWB Terminations are installed at the end of a transmission line or any open port in a DAS network to block RF energy from radiating outward or reflecting back to its source. It is important to make sure that the wattage rating matches, or exceeds, the RF power level where the termination is to be used for adequate dissipation of the energy in the form of heat.



Part Number:	Description / Wattage:	Product Images:
CS48-920-001	2W Termination DC-6GHz 2.2-5 M	 CS48-920-001  100W CS48-955 Series  2W - 30W CS48-955 Series
CS48-955-001	2W Termination Low PIM 600-6000MHz 4.3-10M, -160 dBc PIM IP65	
CS48-955-002	2W Termination Low PIM 600-6000MHz 4.3-10F -160dBc PIM IP65	
CS48-956-001	5W Termination Low PIM 600-6000MHz 4.3-10M -160dBc PIM IP65	
CS48-956-002	5W Termination Low PIM 600-6000MHz 4.3-10F -160dBc PIM IP65	
CS48-957-001	10W Termination Low PIM 600-6000MHz 4.3-10M -160 dBc PIM IP65	
CS48-957-002	10W Termination Low PIM 600-6000 MHz 4.3-10F -160 dBc PIM IP65	
CS48-958-001	30W Termination Low PIM 600-6000MHz 4.3-10M -160dBc PIM IP65	
CS48-958-002	30W Termination Low PIM 600-6000MHz 4.3-10F -160dBc PIM IP65	
CS48-959-001	100W Termination Low PIM 600-6000MHz 4.3-10M -160dBc PIM IP65	
CS48-959-002	100W Termination Low PIM 600-6000MHz 4.3-10F -160dBc PIM IP65	

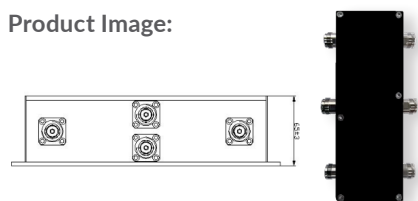
UWB Hybrid Coupler (2x2)

Hybrid Couplers are typically installed to combine 2 or more RF signal sources, while providing high port-to-port isolation. When both outputs are used, they create a nearly lossless combiner/splitter combo. They feature very low loss, and have power handling capability for 200 watts of average power. Coupled ports are 90° out of phase, and the isolated port helps protect against mismatched loads on the coupled ports. These are the best options for combining signals in the same band.

Part Number:	Description / Wattage:	Product Image:
CS63-811-390	Hybrid Coupler Low PIM 600-6000MHz 200W 2x2 4.3-10F -160dBc PIM IP65	

UWB Hybrid Combiner (4x4)


Westell's 4x4 Hybrid Combiner is a matrix of Combiners arranged so that signals applied to any of the four inputs will be split equally between the four outputs. This allows combining of multiple signals to a common input as might be required for a neutral host DAS for an in-building design.

Part Number:	Description / Wattage:	Product Image:
CS63-812-390	Hybrid Combiner Low PIM 600-6000MHz 200W 6dB 4.3-10F -161dBc PIM IP65	




UWB Directional Couplers

Directional Couplers are unequal splitters that are used to balance out the RF power to a number of antennas in a typical DAS. They are similar to Power Tappers in that they drop off a portion of the RF energy through the coupled port, while allowing the majority of the RF energy to continue along the path. They are designed to work in one direction as the coupled signal in the reverse direction is greatly reduced. They can also be used to couple another signal source (such as a cellular modem) into the donor coax. Couplers are specified based on the power ratio between the input port and the coupled port.

Part Number:	Description / Wattage:	Product Image:
CS65-001-054	5dB Directional Coupler Low PIM 555-6000MHz 200W 4.3-10F -161dBc PIM IP65	
CS65-002-064	6dB Directional Coupler Low PIM 555-6000MHz 200W 4.3-10F -161dBc PIM IP65	
CS65-003-074	7dB Directional Coupler Low PIM 555-6000MHz 200W 4.3-10F -161dBc PIM IP65	
CS65-004-084	8dB Directional Coupler Low PIM 555-6000MHz 200W 4.3-10F -161dBc PIM IP65	
CS65-005-104	10dB Directional Coupler Low PIM 555-6000MHz 200W 4.3-10F -161dBc PIM IP65	
CS65-006-134	13dB Directional Coupler Low PIM 555-6000MHz 200W 4.3-10F -161dBc PIM IP65	
CS65-007-154	15dB Directional Coupler Low PIM 555-6000MHz 200W 4.3-10F -161dBc PIM IP65	
CS65-008-204	20dB Directional Coupler Low PIM 555-6000MHz 200W 4.3-10F -161dBc PIM IP65	
CS65-009-304	30dB Directional Coupler Low PIM 555-6000MHz 200W 4.3-10F -161dBc PIM IP65	


UWB High-Power Dividers (Reactive)

Westell's High-Power, Low-Loss Power Dividers are capable of handling 300 watts of total power to evenly split the RF energy 2, 3 or 4 ways. These have lower insertion losses than the Wilkinson style, but cannot be used as a combiner in the reverse direction.

Part Number:	Description / Wattage:	Product Image:
CS64-001-024	575-6000MHz 2-Way 300W Reactive 4.3-10F -161dBc PIM IP65 Power Divider Low PIM	
CS64-002-034	575-6000MHz 3-Way 300W Reactive 4.3-10F -161dBc PIM IP65 Power Divider Low PIM	
CS64-003-044	575-6000MHz 4-Way 300W Reactive 4.3-10F -161dBc PIM IP65 Power Divider Low PIM	

UWB Low-Power Dividers (Wilkinson)

Westell's Wilkinson Low-Power Dividers will handle 50 watts of total power to evenly split the RF energy 2, 3 or 4 ways, and can also be used in the reverse direction as combiners with 2, 3 or 4 inputs.



Part Number:	Description / Wattage:	Product Images:
CS64-001-024LP	575-6000MHz 2-Way 50W Wilkinson 4.3-10F -161dBc PIM IP67 Power Divider Low PIM	
CS64-002-034LP	575-6000MHz 3-Way 50W Wilkinson 4.3-10F -161dBc PIM IP67 Power Divider Low PIM	
CS64-003-044LP	575-6000MHz 4-Way 50W Wilkinson 4.3-10F -161dBc PIM IP67 Power Divider Low PIM	



UWB Power Tappers

Power Tappers, similar in use to Directional Couplers, are used for splitting power unequally when balancing the RF power to a large number of antennas in a typical DAS by dropping off a portion of the RF energy through the coupled port, while allowing the majority of the RF energy to continue along the path. Tappers are coupled in both directions so they can be installed backwards, but are VSMR optimized on the normal input port. Tappers are spec'd based on the power ratio between the through (output) port and the coupled port.





Part Number:	Description / Wattage:	Product Images:
CS65-550-853	3dB Power Tapper Low PIM 380-6000MHz 500W 4.3-10F -161dBc PIM IP67	  <p>Mounting Bracket Included</p>
CS65-551-853	5dB Power Tapper Low PIM 380-6000MHz 500W 4.3-10F -161dBc PIM IP67	
CS65-552-853	6dB Power Tapper Low PIM 380-6000MHz 500W 4.3-10F -161dBc PIM IP67	
CS65-554-853	8dB Power Tapper Low PIM 380-6000MHz 500W 4.3-10F -161dBc PIM IP67	
CS65-556-853	10dB Power Tapper Low PIM 380-6000MHz 500W 4.3-10F -161dBc PIM IP67	
CS65-557-853	13dB Power Tapper Low PIM 380-6000MHz 500W 4.3-10F -161dBc PIM IP67	
CS65-558-853	15dB Power Tapper Low PIM 380-6000MHz 500W 4.3-10F -161dBc PIM IP67	
CS65-559-853	20 dB Power Tapper Low PIM 380-6000 MHz 500W 4.3-10F -161dBc PIM IP67	
CS65-560-853	30 dB Power Tapper Low PIM 380-6000 MHz 500W 4.3-10F -161dBc PIM IP67	

UWB Omnidirectional Antennas

Westell's Omnidirectional Antennas are designed to operate in multiple frequency bands with coverage from 600-6000MHz.

Part Number:	Description / Wattage:	Product Image:	Part Number:	Description / Wattage:	Product Image:
CS03-036-852	Antenna Omnidirectional SISO Low PIM 600-6000MHz (2.5-5.5 dBi) 4.3-10F -153dBc PIM		CS03-037-852	Antenna Omnidirectional MIMO Low PIM 600-6000MHz (2.5-5dBi) 4.3-10F -153dBc PIM	

Mounting Brackets and Bundles


Part Number: 750-2023-001	Description: Bracket, Antenna PVC Ceiling Mount for CS03-036-852.			Product Image: 
Dimensions: 10.75" (dia) x 0.175" (h)				
Part Number: CS03-036-852-BK	Description: CS03-036-852 UWB Omnidirectional Antenna D-600-6000/MIMO/-153/4.3-10, and 750-2023-001 Ceiling PVC Mounting Bracket.			Product Image: 
Polarization: Horizontal	Gain (dBi):	Frequency Range:	Connector Style:	
Antenna Dimensions: 7.5" (dia) x 0.75" (h)	2.5-5.5	600-6000	4.3-10(f)	
Bracket Dimensions: 10.75" (dia) x 0.175" (h)				



UWB 2W Inline Attenuators

Westell's 2 Watt Inline Attenuators are designed to attenuate the power that is supplied by a source or input, up to 2 watts down, to the desired level as the power input for the next element in the network. These are fixed, in-line attenuators.


Westell's passive attenuator reduces the amount of power being delivered to the connected load by a single fixed amount.

Part Number:	Description / Wattage:	Product Image:
CS47-2310-003	3dB Attenuator Low PIM DC-6000MHz 2W 4.3-10M-F n/a PIM IP65	
CS47-2310-005	5dB Attenuator Low PIM DC-6000MHz 2W 4.3-10M-F n/a PIM IP65	
CS47-2310-006	6dB Attenuator Low PIM DC-6000MHz 2W 4.3-10M-F n/a PIM IP65	
CS47-2310-010	10dB Attenuator Low PIM DC-6000MHz 2W 4.3-10M-F n/a PIM IP65	
CS47-2310-015	15dB Attenuator Low PIM DC-6000MHz 2W 4.3-10M-F n/a PIM IP65	
CS47-2310-020	20dB Attenuator Low PIM DC-6000MHz 2W 4.3-10M-F n/a PIM IP65	
CS47-2310-030	30dB Attenuator Low PIM DC-6000MHz 2W 4.3-10M-F n/a PIM IP65	

UWB 80W Inline Attenuators

Westell's 80 Watt Inline Attenuators are designed to attenuate the power that is supplied by a source or input, that is up to 80 watts, down to a desired level as the power input for the next element in the network. These are fixed, in-line attenuators.

Westell's passive attenuator reduces the amount of power being delivered to the connected load by a single fixed amount.

Part Number:	Description / Wattage:	Product Image:
CS47-2312-003	3dB Attenuator Low PIM 600-6000MHz 80W 4.3-10M-F -161dBc PIM IP65	
CS47-2312-006	6dB Attenuator Low PIM 600-6000MHz 80W 4.3-10M-F -161dBc PIM IP65	
CS47-2312-010	10dB Attenuator Low PIM 600-6000MHz 80W 4.3-10M-F -161dBc PIM IP65	
CS47-2312-015	15dB Attenuator Low PIM 600-6000MHz 80W 4.3-10M-F -161dBc PIM IP65	
CS47-2312-020	20dB Attenuator Low PIM 600-6000MHz 80W 4.3-10M-F -161dBc PIM IP65	
CS47-2312-030	30dB Attenuator Low PIM 600-6000MHz 80W 4.3-10M-F -161dBc PIM IP65	



Let's Talk More. Contact Westell Today!

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