



ClearLink[®] Directional Couplers

General Information

Directional couplers are unequal splitters that are used to balance out the RF power within a distributed antenna system. They are a perfect fit for the server side of a distributed antenna system, or to couple another signal source (such as a cellular modem) into the donor coax.

These Low PIM coaxial directional couplers feature a low through loss and power handling capability of 200 watts average power.

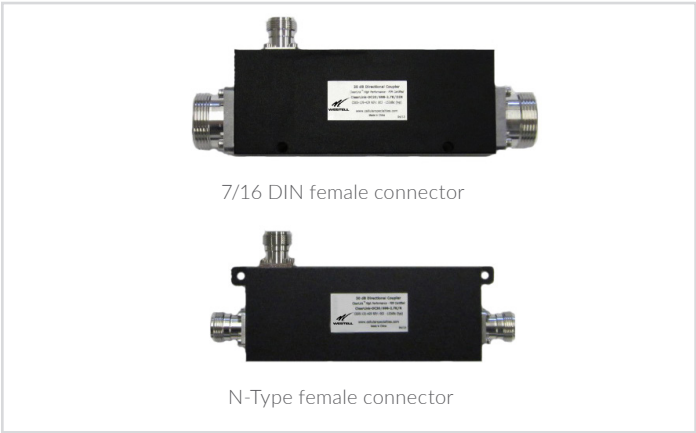
Frequency Range

- 617-2700 MHz for -154 and -161 PIM products
- 698-2700 MHz for -153 PIM products

Features & Benefits

- Guaranteed PIM Compliance
- Available with N-Type, 4.3-10 or 7/16 DIN Female Connectors
- Low Through Loss
- High Directivity
- 200 Watts Average Power
- IP65 Compliant
- RoHS Compliant
- Supports 600MHz Band

*Mounting bracket available as separate item. Use P/N 521-003669-001



Specifications

Standard Coupling (dB)	5	6	10	15	20	30
Split Ratio	2:1	3:1	9:1	30:1	100:1	1000:1
Through Loss (dB) Typical	1.6	1.3	0.56	0.25	0.15	0.1
VSWR (:1)	≤1.30					
Operating Temperature	-35° C to +75° C					
Isolation (dB) (Through to coupled port)	≤25	≤26	≤28	≤32	≤35	≤45



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Ordering Details

Connector Type	Dimensions	PIM Rating (dBc)	Standard Coupling (dB)	Model Number	Item Number
N-Type Female: Input/Output: N-Type Female Coupled port: N-Type Female *698-2700 MHz for -153 PIM products	6.09 x 2.56 x 0.87 in	-153	5	ClearLink-DC5/698-2.7K/N	CS05-124-429
			6	ClearLink-DC6/698-2.7K/N	CS05-125-429
			10	ClearLink-DC10/698-2.7K/N	CS05-128-429
			15	ClearLink-DC15/698-2.7K/N	CS05-129-429
			20	ClearLink-DC20/698-2.7K/N	CS05-130-429
7/16 DIN Female: Input/Output: 7/16 DIN Female Coupled port: 7/16 DIN Female	6.61 x 2.64 x 1.44 in	-161	30	ClearLink-DC30/617-2.7K/-161/DIN	CS05-186-429
4.3-10 Female: Input/Output: 4.3-10 Female Coupled port: 4.3-10 Female	6.69 x 2.68 x 1.15 in	-154	5	ClearLink-DC5/617-2.7K/4310	CS05-124-4294310
			6	ClearLink-DC6/617-2.7K/4310	CS05-125-4294310
			10	ClearLink-DC10/617-2.7K/4310	CS05-128-4294310
			15	ClearLink-DC15/617-2.7K/4310	CS05-129-4294310
			20	ClearLink-DC20/617-2.7K/4310	CS05-130-4294310
	5.75 x 1.97 x .98 in	-161	30	ClearLink-DC30/617-2.7K/4310	CS05-131-4294310
			5	ClearLink-DC5/617-2.7K/-161/4310	CS05-173-429
			6	ClearLink-DC6/617-2.7K/-161/4310	CS05-174-429
			10	ClearLink-DC10/617-2.7K/-161/4310	CS05-175-429
			15	ClearLink-DC15/617-2.7K/-161/4310	CS05-176-429
			20	ClearLink-DC20/617-2.7K/-161/4310	CS05-177-429

Specifications subject to change without notice.

ClearLink® devices are measured with two tones at +43 dBm.



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