

ClearLink® Power Tappers

General Description

Tappers operate similarly to directional couplers but with no directivity. Tappers are uniquely specified, as the value in dB is a ratio of the two output signals, not coupling value. For example, a 3:1 or 4.8 dB taper with a 10 watt input signal would have 7.5 watts output at the mainline port and 2.5 watts output at the tapped port, similar to a 6 dB directional coupler. ClearLink® Power Tappers feature low PIM, low insertion loss and power handling up to 200 watts. Available with N Female, 4.3-10 or 7/16 DIN connectors with a matching coupling port.

Frequency Range

- 698-2700 MHz

Features & Benefits

- Guaranteed PIM compliance
- Available with N Female, 4.3-10 or 7/16 DIN connectors
- Low insertion loss
- Dual directional
- 200 watts average power
- IP65 compliant
- RoHS compliant
- Mounting hardware included

Application Note:

Tappers are used to bi-directionally couple power from the main through line to a tap, or sample point. The taper has a coupling factor over a specified frequency range. Tappers may be used to sample and measure power, or inject power into an RF path. In addition, the taper may be used to measure the spectrum of the signals passed bi-directionally on the through path.



4.3-10 connector image coming soon

-153 PIM Rated Specifications

Standard coupling (dB)	5	6	7	8	10	13	15
Insertion loss (db)	1.7	1.3	1	0.8	0.5	0.2	0.2
VSWR	≤1.35:1						
Operating temperature	-35° C to +75° C						

Specifications subject to change without notice.

-154 and -161 PIM Rated Specifications

Standard coupling (dB)	5	6	7	8	10	13	15	20	30
Insertion loss (db)	1.9	1.6	1.35	1.26	0.7	0.5	0.4	0.3	0.2
VSWR	≤1.35:1								
Operating temperature	-35° C to +75° C								

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Ordering Details

Connector Type	Dimensions	PIM Rating (dBc)	Standard Coupling (dB)	Model Number	Item Number
N Connector	8.24 in x 2.47 in x .99 in	-153	5	ClearLink-PT5/698-2.7K/N	CS05-115-114
			6	ClearLink-PT6/698-2.7K/N	CS05-116-114
			7	ClearLink-PT7/698-2.7K/N	CS05-117-114
			8	ClearLink-PT8/698-2.7K/N	CS05-118-114
			10	ClearLink-PT10/698-2.7K/N	CS05-119-114
			13	ClearLink-PT13/698-2.7K/N	CS05-120-114
			15	ClearLink-PT15/698-2.7K/N	CS05-121-114
DIN Connector	8.39 in x 2.47 in x .99 in	-153	5	ClearLink-PT5/698-2.7K/DIN	CS05-142-114
			6	ClearLink-PT6/698-2.7K/DIN	CS05-143-114
			10	ClearLink-PT10/698-2.7K/DIN	CS05-144-114
			15	ClearLink-PT15/698-2.7K/DIN	CS05-145-114
		-161	5	ClearLink-PT5/698-2.7K/-161/DIN	CS05-180-114
			6	ClearLink-PT6/698-2.7K/-161/DIN	CS05-181-114
			15	ClearLink-PT15/698-2.7K/-161/DIN	CS05-182-114
4.3-10 Connector	8.24 in x 2.47 in x .99 in	-154	5	ClearLink-PT5/698-2.7K/4310	CS05-115-1144310
			6	ClearLink-PT6/698-2.7K/4310	CS05-116-1144310
			7	ClearLink-PT7/698-2.7K/4310	CS05-117-1144310
			8	ClearLink-PT8/698-2.7K/4310	CS05-118-1144310
			10	ClearLink-PT10/698-2.7K/4310	CS05-119-1144310
			13	ClearLink-PT13/698-2.7K/4310	CS05-120-1144310
			15	ClearLink-PT15/698-2.7K/4310	CS05-121-1144310
			20	ClearLink-PT20/698-2.7K/4310	CS05-122-1144310
			30	ClearLink-PT30/698-2.7K/4310	CS05-123-1144310
			-161	5	ClearLink-PT5/698-2.7K/-161/4310
		6		ClearLink-PT6/698-2.7K/-161/4310	CS05-164-114
		7		ClearLink-PT7/698-2.7K/-161/4310	CS05-165-114
		8		ClearLink-PT8/698-2.7K/-161/4310	CS05-166-114
		10		ClearLink-PT10/698-2.7K/-161/4310	CS05-167-114
		13		ClearLink-PT13/698-2.7K/-161/4310	CS05-168-114
		15		ClearLink-PT15/698-2.7K/-161/4310	CS05-169-114
		20	ClearLink-PT20/698-2.7K/-161/4310	CS05-170-114	
30	ClearLink-PT30/698-2.7K/-161/4310	CS05-171-114			

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

