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 tapper 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.

7/16 DIN female connector

Type N female connector.

4.3-10 connector image coming soon

Model Numbers

N-Female Connector Option

- ClearLink-PT5/698-2.7K/N
- ClearLink-PT6/698-2.7K/N
- ClearLink-PT7/698-2.7K/N
- ClearLink-PT8/698-2.7K/N
- ClearLink-PT10/698-2.7K/N
- ClearLink-PT13/698-2.7K/N
- ClearLink-PT15/698-2.7K/N

DIN Connector Option

- ClearLink-PT5/698-2.7K/DIN
- ClearLink-PT6/698-2.7K/DIN
- ClearLink-PT10/698-2.7K/DIN
- ClearLink-PT15/698-2.7K/DIN

4.3-10 Connector Option

- ClearLink-PT5/698-2.7K/4310
- ClearLink-PT6/698-2.7K/4310
- ClearLink-PT7/698-2.7K/4310
- ClearLink-PT8/698-2.7K/4310
- ClearLink-PT10/698-2.7K/4310
- ClearLink-PT13/698-2.7K/4310
- ClearLink-PT15/698-2.7K/4310
- ClearLink-PT20/698-2.7K/4310
- ClearLink-PT30/698-2.7K/4310

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

Frequency Range

- 698-2700 MHz

ClearLink® Power Tappers

Specifications

Standard coupling (dB)	5, 6, 7, 8, 10, 13, 15
Insertion loss	0.1 dB
Mainline loss	1.26 dB ±0.4
VSWR	≤1.35:1
PIM rating	≤-153 dBc
Dimensions	
N Female/4.3-10 connectors	8.24 in x 2.47 in x .99 in
7/16 DIN connectors	8.39 in x 2.47 in x .99 in
Operating temperature	-35° C to +75° C

Specifications subject to change without notice.

Application Note:
Tappers are used to bi-directionally couple power from the main through line to a tap, or sample point. The tapper 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 tapper may be used to measure the spectrum of the signals passed bi-directionally on the through path.

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