

LPD Splitters

Trunk Grade Passives

Blonder Tongue's LPD and DCL (found on the following page) Series are precision 2 GHz passives designed for L-Band distribution systems requiring high frequency, high performance components.

The LPD Series consists of 2, 3, 4, 6 and 8 way splitters. Models are available with either a single power passing port or with all ports power passing (diode steered, out to in).

○ Features & Benefits

- Professional Trunk Grade
- 10-2150 MHz Bandwidth
- Gold Plated F Connector Squeeze Pins
- Zinc Die Cast Hybrid Case

○ Specifications

| | Description | Frequency Range MHz | Return Loss dB | | Insertion Loss | Out-Out Insolation dB |
|----------------------------|---|---------------------|----------------|-----|----------------|-----------------------|
| | | | IN | OUT | | |
| LPD-2 2 Outputs | 10-2150 (MHz) 1 Port Power Pass | 10 - 40 | 10 | 10 | 4.3 | 25 |
| | | 40 - 806 | 12 | 12 | 4.0 | 25 |
| | | 950-1450 | 12 | 12 | 5.0 | 22 |
| | | 1450-2150 | 12 | 12 | 5.0 | 22 |
| LPD-2p 2 Outputs | 10-2150 (MHz) All Ports Power Pass Diode Steered | 10 - 40 | 8 | 8 | 4.3 | 25 |
| | | 40 - 806 | 12 | 12 | 4.0 | 23 |
| | | 950-1450 | 12 | 12 | 5.0 | 22 |
| | | 1450-2150 | 10 | 12 | 5.5 | 20 |
| LPD-3p 3 Outputs | 10-2150 (MHz) All Ports Power Pass Diode Steered | 10 - 40 | 8 | 8 | 6.5 | 22 |
| | | 40 - 806 | 10 | 10 | 6.8 | 20 |
| | | 950-1450 | 10 | 10 | 7.5 | 18 |
| | | 1450-2150 | 10 | 10 | 9.0 | 20 |
| LPD-4 4 Outputs | 10-2150 (MHz) 1 Port Power Pass | 10 - 40 | 8 | 8 | 7.8 | 22 |
| | | 40 - 806 | 10 | 10 | 7.5 | 25 |
| | | 950-1450 | 10 | 10 | 9.0 | 22 |
| | | 1450-2150 | 10 | 10 | 9.5 | 20 |
| LPD-4p 4 Outputs | 10-2150 (MHz) All Ports Power Pass Diode Steered | 10 - 40 | 8 | 8 | 7.8 | 22 |
| | | 40 - 806 | 10 | 10 | 7.8 | 24 |
| | | 950-1450 | 10 | 12 | 8.5 | 22 |
| | | 1450-2150 | 10 | 10 | 9.0 | 20 |
| LPD-6 6 Outputs | 10-2150 (MHz) 1 Port Power Pass | 10 - 40 | 8 | 8 | 11.5 | 20 |
| | | 40 - 806 | 10 | 10 | 12.5 | 24 |
| | | 950-1450 | 10 | 12 | 13.5 | 23 |
| | | 1450-2150 | 8 | 10 | 14.5 | 20 |
| LPD-6p 6 Outputs | 10-2150 (MHz) All Ports Power Pass Diode Steered | 10 - 40 | 8 | 8 | 11.5 | 20 |
| | | 40 - 806 | 10 | 10 | 12.5 | 24 |
| | | 950-1450 | 10 | 12 | 13.5 | 23 |
| | | 1450-2150 | 8 | 10 | 14.5 | 20 |
| LPD-8 8 Outputs | 10-2150 (MHz) 1 Port Power Pass | 10 - 40 | 8 | 8 | 11.5 | 25 |
| | | 40 - 806 | 10 | 10 | 12.5 | 25 |
| | | 950-1450 | 10 | 12 | 13.5 | 25 |
| | | 1450-2150 | 8 | 10 | 14.5 | 20 |
| LPD-8p 8 Outputs | 10-2150 (MHz) All Ports Power Pass Diode Steered | 10 - 40 | 8 | 8 | 11.5 | 25 |
| | | 40 - 806 | 10 | 10 | 12.5 | 25 |
| | | 950-1450 | 10 | 12 | 13.5 | 25 |
| | | 1450-2150 | 8 | 10 | 14.5 | 20 |

○ Ordering Information

| Model | Stock No. | Description | Model | Stock No. | Description |
|--------|-----------|--|--------|-----------|--|
| LPD-2 | 6405 | Splitter, 2 Way 10-2150 MHz, 1 Port Power Passing | LPD-6 | 6413 | Splitter, 6 Way 10-2150 MHz, 1 Port Power Passing |
| LPD-2P | 6409 | Splitter, 2 Way 10-2150 MHz, All Ports Power Passing | LPD-6P | 6422 | Splitter, 6 Way 10-2150 MHz, All Ports Power Passing |
| LPD-3P | 6410 | Splitter, 3 Way 10-2150 MHz, All Ports Power Passing | LPD-8 | 6415 | Splitter, 8 Way 10-2150 MHz, 1 Port Power Passing |
| LPD-4 | 6411 | Splitter, 4 Way 10-2150 MHz, 1 Port Power Passing | LPD-8P | 6435 | Splitter, 8 Way 10-2150 MHz, All Ports Power Passing |
| LPD-4P | 6412 | Splitter, 4 Way 10-2150 MHz, All Ports Power Passing | | | |

Available through

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DCL Directional Couplers

Trunk Grade Passives

The DCL Series are directional couplers and are available in 1, 2 and 4 port models. All DCL Series have power passing capability on the through line (in/out ports) with tap port(s) DC blocked.

○ Features & Benefits

- Professional Trunk Grade
- 10-2150 MHz Bandwidth
- Gold Plated F Connector Squeeze Pins
- Zinc Die Cast Hybrid Case

○ Specifications

1 Port



2 Port



4 Port



1 Port Directional Couplers

| | Tap Value | Frequency Range | Insertion In-Out | Isolation In-Tap | Isolation Out-Tap | Isolation Port-Port | Return Loss In | Return Loss Out | Return Loss Port |
|---------|-----------|-----------------|------------------|------------------|-------------------|---------------------|----------------|-----------------|------------------|
| DCL-108 | 8 | 10 - 950 | 2.5 | 8 | 20 | - | 13 | 18 | 12 |
| | | 950 - 1450 | 2.7 | 8.5 | 18 | - | 13 | 18 | 12 |
| | | 1450 - 2150 | 4.5 | 8.5 | 16 | - | 10 | 18 | 12 |
| DCL-112 | 12 | 10 - 950 | 1.3 | 11.5 | 20 | - | 14 | 18 | 14 |
| | | 950 - 1450 | 1.5 | 12 | 19 | - | 14 | 18 | 14 |
| | | 1450 - 2150 | 2.5 | 12.5 | 16 | - | 10 | 18 | 12 |
| DCL-116 | 16 | 10 - 950 | 1.5 | 15 | 24 | - | 14 | 18 | 14 |
| | | 950 - 1450 | 1.5 | 15 | 23 | - | 14 | 18 | 14 |
| | | 1450 - 2150 | 2.5 | 16 | 20 | - | 10 | 13 | 12 |
| DCL-120 | 20 | 10-950 | 1.5 | 19 | 28 | - | 14 | 18 | 12 |
| | | 950 - 1450 | 2.0 | 19 | 28 | - | 14 | 18 | 12 |
| | | 1450 - 2150 | 2.5 | 20 | 25 | - | 10 | 11 | 11 |
| DCL-124 | 24 | 10-950 | 1.4 | 24 | 28 | - | 15 | 18 | 12 |
| | | 950 - 1450 | 1.5 | 24 | 28 | - | 15 | 18 | 12 |
| | | 1450 - 2150 | 2.3 | 24 | 26 | - | 10 | 11 | 11 |
| DCL-128 | 28 | 10-950 | 1.4 | 28 | 32 | - | 15 | 18 | 14 |
| | | 950 - 1450 | 1.5 | 28.5 | 30 | - | 15 | 18 | 14 |
| | | 1450 - 2150 | 2.4 | 28.5 | 28 | - | 10 | 11 | 12 |

2 Port Directional Couplers

| | | | | | | | | | |
|---------|----|-------------|-----|------|----|----|----|----|----|
| DCL-212 | 12 | 10 - 950 | 2.2 | 12 | 25 | 20 | 16 | 15 | 11 |
| | | 950 - 1450 | 2.5 | 12 | 28 | 17 | 16 | 15 | 11 |
| | | 1450 - 2150 | 4.1 | 13 | 20 | 15 | 12 | 15 | 11 |
| DCL-216 | 16 | 10 - 950 | 1.3 | 15 | 26 | 20 | 16 | 16 | 12 |
| | | 950 - 1450 | 1.8 | 16 | 28 | 17 | 16 | 16 | 12 |
| | | 1450 - 2150 | 3.7 | 17 | 22 | 15 | 10 | 16 | 12 |
| DCL-220 | 20 | 10 - 950 | 1.5 | 19 | 28 | 20 | 16 | 16 | 14 |
| | | 950 - 1450 | 1.5 | 20 | 28 | 17 | 16 | 16 | 14 |
| | | 1450 - 2150 | 2.3 | 21 | 26 | 17 | 10 | 12 | 13 |
| DCL-224 | 24 | 10 - 950 | 1.3 | 23 | 30 | 20 | 16 | 17 | 15 |
| | | 950 - 1450 | 1.3 | 23 | 30 | 18 | 16 | 17 | 15 |
| | | 1450 - 2150 | 2.0 | 25 | 30 | 18 | 11 | 14 | 11 |
| DCL-228 | 28 | 10 - 950 | 1.3 | 27 | 30 | 22 | 16 | 17 | 14 |
| | | 950 - 1450 | 1.3 | 28 | 30 | 18 | 16 | 17 | 14 |
| | | 1450 - 2150 | 2.0 | 28.5 | 30 | 18 | 11 | 15 | 12 |

4 Port Directional Couplers

| | | | | | | | | | |
|---------|----|-------------|-----|----|----|----|----|----|----|
| DCL-412 | 12 | 10 - 950 | 5.0 | 13 | 28 | 30 | 10 | 13 | 12 |
| | | 950 - 1450 | 4.6 | 12 | 28 | 19 | 10 | 13 | 12 |
| | | 1450 - 2150 | 5.5 | 14 | 26 | 14 | 10 | 10 | 12 |
| DCL-416 | 16 | 10 - 950 | 2.4 | 16 | 30 | 30 | 12 | 15 | 12 |
| | | 950 - 1450 | 3.0 | 16 | 28 | 26 | 12 | 15 | 12 |
| | | 1450 - 2150 | 5.0 | 17 | 26 | 22 | 10 | 10 | 12 |
| DCL-420 | 20 | 10 - 950 | 1.3 | 20 | 30 | 24 | 12 | 15 | 14 |
| | | 950 - 1450 | 1.5 | 20 | 28 | 28 | 12 | 15 | 14 |
| | | 1450 - 2150 | 2.1 | 22 | 23 | 30 | 14 | 12 | 12 |
| DCL-424 | 24 | 10 - 950 | 1.3 | 24 | 33 | 26 | 12 | 15 | 16 |
| | | 950 - 1450 | 1.5 | 24 | 33 | 25 | 12 | 15 | 16 |
| | | 1450 - 2150 | 2.1 | 25 | 28 | 21 | 12 | 14 | 16 |

○ Ordering Information

| Model | Stock No. | Description |
|---------|-----------|--|
| DCL-1XX | 6426 | Directional Tap, 1 Output 10-2150 MHz, Power Passing Thru Pt, Values: 8, 12, 16, 20, 24, 28 dB |
| DCL-2XX | 6431 | Directional Tap, 2 Output 10-2150 MHz, Power Passing Thru Pt, Values: 12, 16, 20, 24, 28 dB |
| DCL-4XX | 6436 | Directional Tap, 4 Output 10-2150 MHz, Power Passing Thru Pt, Values: 12, 16, 20, 24 dB |

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