

# RF Filters / Splitters

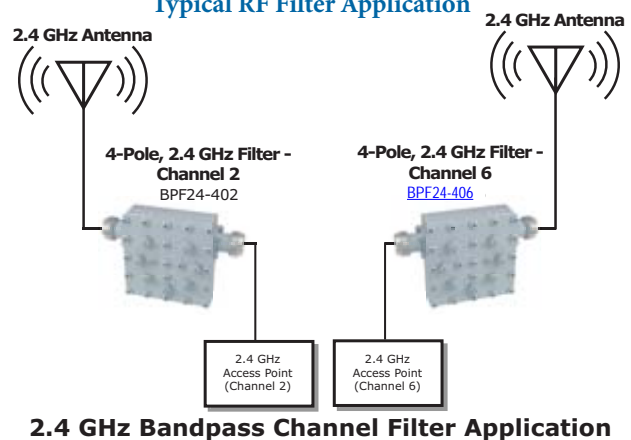
## RF Filters / Splitters Tutorial

### What are RF Filters?

RF Filters reduce out of band interference and improve performance of co-located equipment. An RF Filter will only pass the frequency and channel you are transmitting or receiving and reduce the interference of signals outside your channel. Interference is usually caused by transmission sources near the channel you are transmitting on.

L-com's RF Filters are available in full band versions or fixed channel versions and provide excellent channel rejection. All filters feature rugged aluminum construction and are available for indoor or outdoor applications.

### Typical RF Filter Application

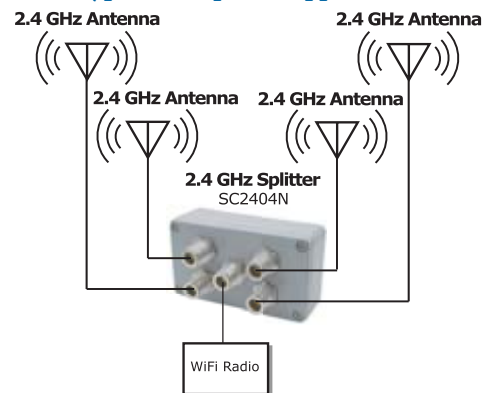


2.4 GHz Bandpass Channel Filter Application

### What are RF Splitters/Combiners?

An RF Splitter/Combiner is a transmission component which divides or sums power between two or more ports. Typically they are used for connecting more than one antenna to a single radio and can also be used to connect multiple radios to a single antenna using the same frequency.

### Typical RF Splitter Application



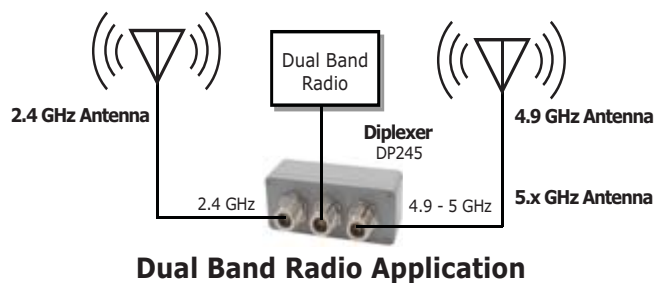
4-Way Signal Splitter Application

For more useful information go to....  
[www.L-com.com/Resources](http://www.L-com.com/Resources)

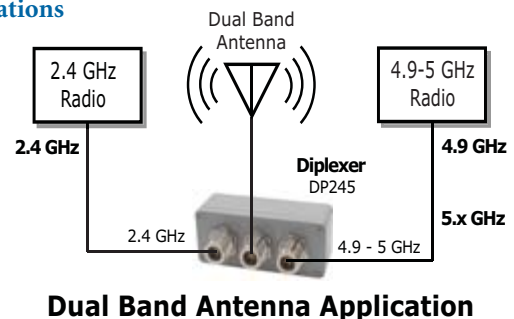
### What are RF Diplexers?

An RF Diplexer is a device that combines two signals onto a single transmission line. In general the two signals operate at different frequencies. L-com's Diplexers are designed to split 2.4 GHz and 5 GHz from a single radio feed to separate 2.4 GHz and 5 GHz antennas. Many dual-band 802.11a/b/g radios share a single antenna. These devices split these signals so that two separate 2.4 GHz and 5 GHz antennas can be used to improve performance. In addition, L-com Diplexers can also be used to combine 2.4 GHz or 5 GHz signals onto a single cable.

### Typical RF Diplexer Applications



Dual Band Radio Application



Dual Band Antenna Application



Item #	Description	1-9	10-24	25-99	100-249	250-499
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### HyperLink® 800 MHz, 900 MHz, 2.4 GHz, 3.5 GHz and 5.8 GHz Signal Splitters/Signal Combiners

L-com's signal splitters/signal combiners are used for connecting more than one antenna to a single radio. They feature weatherproof construction and can be installed indoors or outdoors. These flexible splitters can be used with amplified systems since they will pass DC power to all ports.

#### ✓RoHS 800-2600 MHz Broadband Signal Splitters

<a href="#">SCW02N</a>	2-Way, Type N-Female Connectors	39.99	35.99	31.99	27.99	23.99
<a href="#">SCW03N</a>	3-Way, Type N-Female Connectors	59.99	53.99	47.99	41.99	35.99
<a href="#">SCW04N</a>	4-Way, Type N-Female Connectors	79.99	71.99	63.99	55.99	47.99

#### ✓RoHS 900 MHz Signal Splitters

<a href="#">SC902N</a>	2-Way, Type N-Female Connectors	49.99	44.99	39.99	34.99	29.99
<a href="#">SC903N</a>	3-Way, Type N-Female Connectors	59.99	53.99	47.99	41.99	35.99

#### ✓RoHS 2.4 GHz Signal Splitters

<a href="#">SC2402N</a>	2-Way, Type N-Female Connectors	39.99	35.99	31.99	27.99	23.99
<a href="#">SC2402RTM</a>	2-Way, RP-TNC Jack Connectors	49.99	44.99	39.99	34.99	29.99
<a href="#">SC2403N</a>	3-Way, Type N-Female Connectors	59.99	53.99	47.99	41.99	35.99
<a href="#">SC2403RTM</a>	3-Way, RP-TNC Jack Connectors	69.99	62.99	55.99	48.99	41.99
<a href="#">SC2404N</a>	4-Way, Type N-Female Connectors	69.99	62.99	55.99	48.99	41.99

#### ✓RoHS 3.5 GHz Signal Splitters

<a href="#">SC3502N</a>	2-Way, Type N-Female Connectors	39.99	37.99	35.99	33.99	CALL
<a href="#">SC3504N</a>	4-Way, Type N-Female Connectors	69.99	66.49	62.99	59.49	CALL

#### ✓RoHS 5.8 GHz Signal Splitters

<a href="#">SC5802N</a>	2-Way, Type N-Female Connectors	99.99	89.99	79.99	69.99	59.99
<a href="#">SC5804N</a>	4-Way, Type N-Female Connectors	159.99	143.99	127.99	111.99	95.99

### 2.4 GHz 802.11b/g Compatible Ultra High Q 4-Pole and 8-Pole Wi-Fi Bandpass Channel Filters

L-com's HyperLink® indoor and outdoor 2.4 GHz ultra-high Q Wi-Fi channel filters are ideal for co-located equipment installations. Available in seven versions for channels 1, 3, 6, 9, 11, 13 and 14, they provide excellent adjacent channel rejection. By reducing interference from both inside and outside the band, improved performance of co-located equipment can be achieved.

#### ✓RoHS 2.4 GHz Filters

<a href="#">BPF24-401</a>	4-Pole, Indoor, Channel 1	69.99	64.39	58.79	53.19	CALL
<a href="#">BPF24-403</a>	4-Pole, Indoor, Channel 3	69.99	64.39	58.79	53.19	CALL
<a href="#">BPF24-406</a>	4-Pole, Indoor, Channel 6	69.99	64.39	58.79	53.19	CALL
<a href="#">BPF24-409</a>	4-Pole, Indoor, Channel 9	69.99	64.39	58.79	53.19	CALL
<a href="#">BPF24-411</a>	4-Pole, Indoor, Channel 11	69.99	64.39	58.79	53.19	CALL
<a href="#">BPF24-801</a>	8-Pole, Indoor, Channel 1	89.99	82.79	75.59	68.39	CALL
<a href="#">BPF24-801A</a>	8-Pole, Outdoor, Channel 1	124.99	114.99	104.99	94.99	CALL
<a href="#">BPF24-803</a>	8-Pole, Indoor, Channel 3	89.99	82.79	75.59	68.39	CALL
<a href="#">BPF24-806</a>	8-Pole, Indoor, Channel 6	89.99	82.79	75.59	68.39	CALL
<a href="#">BPF24-806A</a>	8-Pole, Outdoor, Channel 6	124.99	114.99	104.99	94.99	CALL
<a href="#">BPF24-809</a>	8-Pole, Indoor, Channel 9	89.99	82.79	75.59	68.39	CALL
<a href="#">BPF24-809A</a>	8-Pole, Outdoor, Channel 9	124.99	114.99	104.99	94.99	CALL
<a href="#">BPF24-811</a>	8-Pole, Indoor, Channel 11	89.99	82.79	75.59	68.39	CALL
<a href="#">BPF24-811A</a>	8-Pole, Outdoor, Channel 11	124.99	114.99	104.99	94.99	CALL
<a href="#">BPF24-813</a>	8-Pole, Indoor, Channel 13	89.99	82.79	75.59	68.39	CALL
<a href="#">BPF24-813A</a>	8-Pole, Outdoor, Channel 13	124.99	114.99	104.99	94.99	CALL
<a href="#">BPF24-814</a>	8-Pole, Indoor, Channel 14	89.99	82.79	75.59	68.39	CALL
<a href="#">BPF2400</a>	4-Pole, Indoor, Full Band	99.99	91.99	83.99	75.99	CALL
<a href="#">BPF2400A</a>	4-Pole, Outdoor, Full Band	149.99	137.99	125.99	113.99	101.99

#### ✓RoHS 900 MHz Full Band Ultra High Q 4-Pole Indoor and Outdoor Bandpass Filters

HyperLink® 900 MHz 4-Pole ultra-high Q full band filters are designed for full band applications. By reducing interference outside the 915 MHz band such as from cellular and paging signals, improved performance in noisy environments can be achieved.

<a href="#">BPF900</a>	4-Pole, Indoor, Full Band	99.99	91.99	83.99	75.99	67.99
<a href="#">BPF900A</a>	4-Pole, Outdoor, Full Band	149.99	137.99	125.99	113.99	101.99

#### 4.9 GHz and 5.8 GHz Full Band Ultra High Q 4-Pole Bandpass Filters

HyperLink® 4.9 GHz and 5.8 GHz 4-Pole ultra high Q full band channel filters are ideal for co-located equipment installations. These filters are designed for full band applications. By reducing interference outside the respective bands (4900 MHz or 5800 MHz depending on model), improved performance on the co-located equipment can be achieved.

#### ✓RoHS 4.9 GHz Filters

<a href="#">BPF4900A</a>	4-Pole, Outdoor/Indoor, Full Band	149.99	137.99	125.99	113.99	101.99
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#### ✓RoHS 5.8 GHz Filters

<a href="#">BPF5800A</a>	4-Pole, Outdoor/ Indoor, Full Band	149.99	137.99	125.99	113.99	101.99
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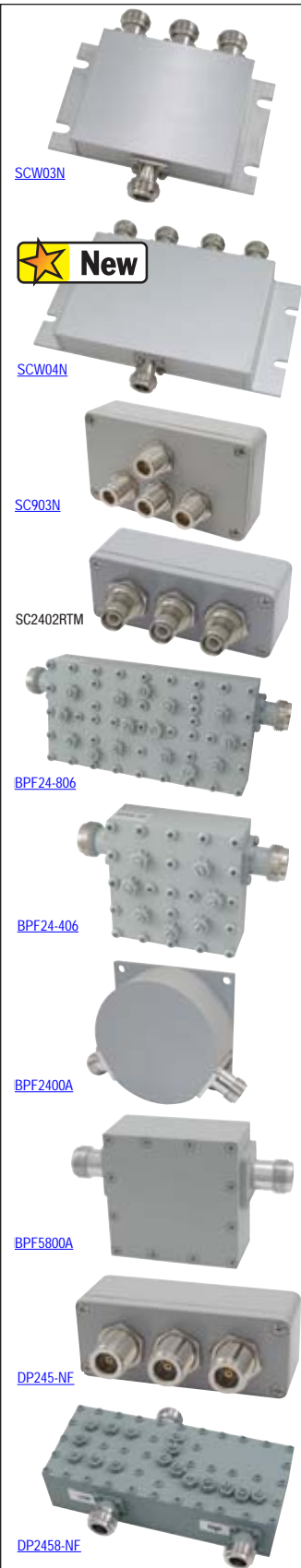
#### ✓RoHS 2.4/5 GHz Diplexers

HyperLink® 2.4/5 GHz diplexers are designed to split 2.4 GHz and 5 GHz from a single radio feed to separate 2.4 GHz and 5 GHz antennas. They can also be used to combine those frequencies into a single cable. HyperLink® diplexers are available for indoor and outdoor applications and feature Type N-Female connectors.

<a href="#">DP245-NF</a>	2.4/5.8 GHz, Outdoor, Type N-Female Connectors	49.99	44.99	39.99	34.99	CALL
<a href="#">DP2458-NF</a>	2.4/5.8 GHz, Indoor, Type N-Female Connectors	139.99	125.99	111.99	97.99	CALL

#### ✓RoHS Accessories

<a href="#">ANM-TERM1</a>	Type N-Male, 50 Ohm Terminator, 0-6 GHz	7.99	7.67	7.35	6.79	5.99
<a href="#">HGX-PMT14</a>	Splitter Mast Mount Kit, 1-1/4in to 2in Diameter	12.99	11.69	10.39	9.09	CALL
<a href="#">HGX-AMOUNT02</a>	Splitter Wall/Enclosure Mounting Kit	9.99	8.99	7.99	6.99	5.99



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