



RFS Small Cell Diplexers

The smallest and lightest diplexers on the market bring maximum performance to the smallest spaces



The ultimate combination of performance and flexibility

As end-user demand continues to grow and technology continues to shrink, small cell solutions that can be concealed within streetlights and flagpoles or strand mounted are key to helping operators densify their networks and evolve to 5G. Incorporating small cell solutions into neutral host networks that provide a single infrastructure for multiple operators is proving to be an ideal way to take advantage of increasingly smaller spaces.

The RFS' FDPL Series of ShareLite™ small cell diplexers give site integrators the performance and flexibility needed when deploying shared infrastructure in the most space-constrained locations.

Innovative design increases reliability, decreases size and weight

RFS ShareLite small cell diplexers feature an innovative design that delivers best-in-class PIM levels (-161dBc) and very low insertion loss in the most compact and lightweight form factor on the market. The unique cavity filter design incorporates highly selective filters that guarantee 40dB of isolation between ports to eliminate interference for any technology deployed. RFS' robust small cell diplexers are also designed to withstand the most severe outdoor environments:

- IP67 class protection with a vented enclosure avoids any possible effects of condensation and pressure instability
- Built-in lightning protection further increases reliability

The RFS FDPL Series of diplexers enable 4x4 MIMO configurations across the entire North American mid-band spectrum range (PCS/AWS-WCS-2.5 GHz).

Exclusive Features and Benefits

Superior Performance; Compact Design

- **Smallest and lightest diplexers on the market**
Simplifies installation, reduces space requirements and tower loading
- **Best-in-class PIM and power handling, low insertion loss**
Guarantees high performance
- **2x2 and 4x4 MIMO configurations**
Increases flexibility, enables network evolution
- **4.3-10 and NEX10 connectors**
Reduces assembly size and enables installation in the smallest enclosures
- **IP67 class protection with a vented enclosure**
Increases reliability, ensures long life in the field



Product Specifications

Click the Model Number below to access the datasheet

Model Number	DC Pass	Rejection, dB	Weight, kg (lb)	Dimensions, H x W x D, mm (in)	RF Connectors
Path 1: 1850-1915 & 1930-1995 MHz Path 2: 1695-1780 & 2110-2700 MHz					
Single Configuration					
FDPL4020S4-NC	No DC Pass	40	0.7 (1.6)	100 x 106 x 44 (3.9 x 4.1 x 1.7)	4,3-10 (F)
FDPL4020S4-1C	All DC Pass				NEX10 (F)
FDPL4020S0-1C	All DC Pass				
FDPL4020S0-NC	No DC Pass				
Dual Configuration					
FDPL4020AD4-NC	No DC Pass	40	1.4 (3.1)	181 x 106 x 44 (7.1 x 4.1 x 1.7)	4,3-10 (F)
FDPL4020AD4-1C	All DC Pass				NEX10 (F)
FDPL4020AD0-1C	All DC Pass				
FDPL4020AD0-NC	No DC Pass				
FDPL4020CD4-NC	No DC Pass			100 x 106 x 78 (3.9 x 4.1 x 3)	4,3-10 (F)
FDPL4020CD4-1C	All DC Pass				NEX10 (F)
FDPL4020CD0-1C	All DC Pass				
FDPL4020CD0-NC	No DC Pass				
Quad Configuration					
FDPL4020AQ4-NC	No DC Pass	40	2.7 (6.0)	181 x 106 x 78 (7.1 x 4.1 x 3)	4,3-10 (F)
FDPL4020AQ4-1C	All DC Pass				NEX10 (F)
FDPL4020AQ0-1C	All DC Pass				
FDPL4020AQ0-NC	No DC Pass				
FDPL4020CQ4-NC	No DC Pass			100 x 106 x 155 (3.9 x 4.1 x 6.1)	4,3-10 (F)
FDPL4020CQ4-1C	All DC Pass				NEX10 (F)
FDPL4020CQ0-1C	All DC Pass				
FDPL4020CQ0-NC	No DC Pass				

NEW in 2019



FDPAW Series

Size Matters

In the world of small cells, size is a really big deal. To deliver small cell solutions in the most constrained spaces, RFS has engineered the world's smallest diplexer.

Designed and built with proven building blocks according to exacting technical specifications including a lower rejection (30dB) between bands, this diminutive diplexer delivers all of the quality and performance RFS is known for in the tiniest possible package.



Play to win with the "smallest" small cell diplexers in the industry.

Model Number	DC Pass	Rejection, dB	Weight, kg (lb)	Dimensions, H x W x D, mm (in)	RF Connectors
Path 1: 1850-1915 & 1930-1995 MHz Path 2: 1695-1780 & 2110-2360 MHz					
Single Configuration					
FDPAW3040S0-NC	No DC Pass	35 30	0.4 (0.9)	88 x 77 x 36 (3.5 x 3 x 1.4)	NEX10 (F)
Dual Configuration					
FDPAW3040CD0-NC	No DC Pass	35 30	0.66 (1.4)	54 x 80 x 78 (2.1 x 3.1 x 3)	NEX10 (F)
Quad Configuration					
FDPAW3040CQ0-NC	No DC Pass	35 30	1.5 (3.3)	88 x 77 x 130 (3.5 x 3 x 5.1)	NEX10 (F)