



RFS Releases Extremely Compact, High-Performance Diplexers Covering 80 MHz to 5.9 GHz to Simplify Global Evolution to 5G

RFS' exceptionally wide-spectrum ShareLite™ FDFX5 diplexers address mobile operators' need to deploy small cell overlay networks and take advantage of shared spectrum



Munich, August 1, 2019 – Radio Frequency Systems (RFS), a global designer and manufacturer of total-package solutions for wireless and broadcast infrastructure, today announced the release of the ShareLite™ FDFX5 family of diplexers. The extremely compact and lightweight diplexers allow mobile operators to overlay small cell networks on top of existing networks and to take advantage of emerging

shared spectrum, such as 3.5 GHz Citizens Broadband Radio Service (CBRS) spectrum and License Assisted Access (LAA) spectrum in the unlicensed 5 GHz band. The ability to deploy higher frequency networks and use new spectrum, particularly in the 3.5 GHz range, are key steps in operators' ongoing evolution to 5G.

Support for almost any system and any deployment scenario anywhere in the world

The ShareLite FDFX5 diplexers are ideal for almost any small cell or 5G network densification project globally.

The diplexers enable feeder sharing between systems in the 80 MHz to 2.7 GHz range on one port and systems in the 3.3 GHz to 5.9 GHz range on the other for extremely broad deployment potential. Selective filters that guarantee 50 dB of isolation between ports ensure interference is never an issue.

The FDFX5 diplexers also set new industry benchmarks for small size and low weight to enable deployment in the most constrained spaces, and feature excellent PIM and extremely low insertion loss for the highest possible network quality. The robust diplexers can be deployed in any indoor or outdoor small cell or macro network environment and provide IP67 protection against dust and water as well as built-in lightning protection. They are available with 4.3-10, 2.2-5 or NEX10 connectors to support any cabling requirements.

Together, these features give operators the flexibility to address key deployment challenges associated with network densification projects, including:

- Antenna port limitations
- Cable and jumper limitations
- Performance issues created by adding jumpers
- Pole diameter and other space constraints
- Visual clutter constraints



Part of a complete family of multiplexing solutions

“The ShareLite FDFX5 diplexers are the next logical step in our strategy to help operators around the world densify their networks and simplify their evolution to 5G,” says Giampiero Capraro, Global RFC Product Line Management Director at RFS. “These diplexers, along with our benchmark-setting ShareLite FDPL and FDP AW diplexers and our soon-to-be released ShareLite FTCMX triplexers, give mobile operators a complete portfolio of smaller, lighter, higher frequency multiplexing solutions to efficiently and cost effectively address the space and spectrum constraints they face as they deploy smaller, denser networks.”

RFS’ upcoming ShareLite FTCMX triplexers enable feeder sharing between systems in the 380 MHz to 2.2 GHz, 2.4 GHz to 2.7 GHz and 3.3 GHz to 3.8 GHz spectrum ranges with all of the robust, high-performance characteristics RFS products are known for.

→ **“Mobile operators have a complete portfolio of smaller, lighter, higher frequency multiplexing solutions to efficiently and cost effectively address the space and spectrum constraints they face as they deploy smaller, denser networks”**

Field deployments of the ShareLite FDFX5 diplexers are currently underway.

About RFS

Radio Frequency Systems (RFS) is a global designer and manufacturer of cable, antenna and tower systems, plus active and passive RF conditioning modules, providing total-package solutions for wireless infrastructure.

RFS serves OEMs, distributors, system integrators, operators and installers in the broadcast, wireless communications, land-mobile and microwave market sectors. As an ISO compliant organization with manufacturing and customer service facilities that span the globe, RFS offers cutting-edge engineering capabilities, superior field support and innovative product design. RFS is a leader in wireless infrastructure.

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