Press Release

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New Broadcast Auxiliary Service Filter From RFS Blocks AWS Spectrum Interference

The Interference Mitigation Filter (IMF) from RFS rejects all AWS-1 and AWS-3 spectrum emissions while passing Broadcast Auxiliary Channels 1 through 10

Meriden, CT, January 10, 2018 – Meriden (Connecticut), May 24, 2018 – Radio Frequency Systems (RFS), a global designer and manufacturer of cable, antenna and tower systems providing total-package solutions for wireless and broadcast infrastructure, today announced the availability of a new Broadcast Auxiliary Service (BAS) Interference Mitigation Filter (IMF) that rejects all AWS-1 and AWS-3 spectrum emissions to improve transmission quality for BAS channels 1 through 10.

The AWS spectrum is adjacent to the 2 GHz BAS band broadcasters use to backhaul signals from mobile news teams in the field and to transmit signals between the studio and the transmitter. When the new BAS filter is installed in the broadcaster's BAS link, it eliminates the interference issues that can occur when mobile network operators transmit on AWS spectrum.

While mobile operators are already required to eliminate interference caused by AWS-1 A block emissions, recent tests have revealed that AWS-1 B block and C block spectrum can also interfere with broadcasters' BAS signals. With the ability to block all AWS spectrum, mobile operators can address all interference issues using a single, robust filter.

Unlike many existing filters, which can only be installed indoors, the new BAS filter from RFS is enclosed in a weatherproof aluminum housing so it can be installed on the tower, closer to antennas, or rack-mounted. In addition, operator field tests confirm that the RFS BAS filter lowers out-of-band emissions (OOBE), potentially reducing the number of band block filters that operators need to purchase and install to comply with Federal Communications Commission (FCC) OOBE limits.

As mobile operators densify their networks, it is more and more likely they will have to address broader AWS spectrum interference challenges. The RFS filter was designed in response to interference issues identified by one of its mobile operator customers during field tests.

"When one of our customers highlighted the interference issues with AWS-1 B block and C block spectrum, we responded quickly with this all-in-one filter," said Andy Stanek, Global Product Line Manager for RF Conditioning Products at RFS. "It's a win-win solution. Operators can be assured they are meeting all of their FCC BAS filtering obligations, and broadcasters can transmit BAS signals with no worry that nearby AWS emissions will degrade signal quality."

The new RFS BAS filter provides downlink insertion loss of just 0.3 dB, is easy to install and meets IP67 requirements for ingress protection.

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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