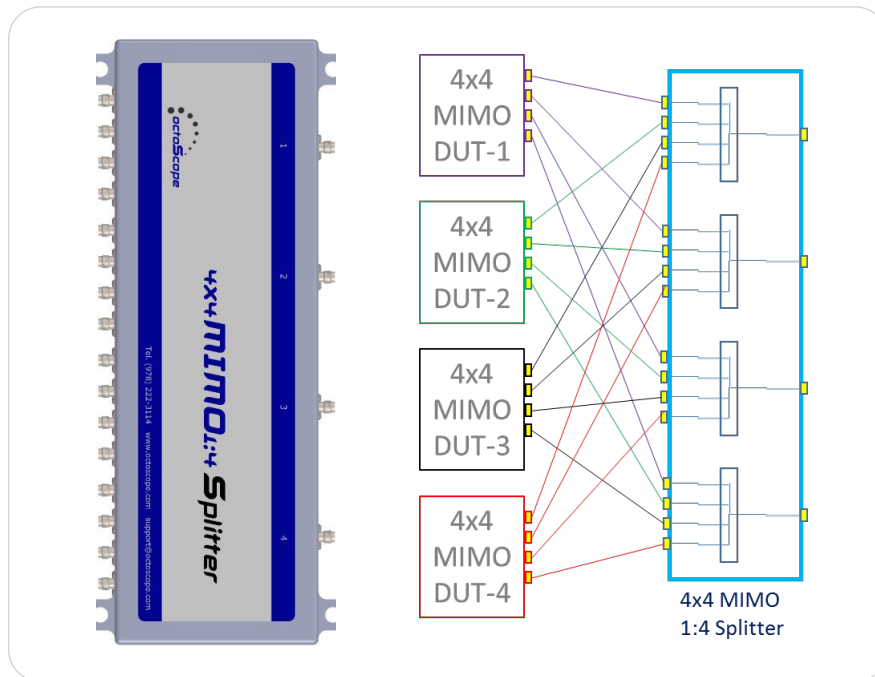


octoBox[®] 4x4 MIMO

1:2 and 1:4 splitters

4x4 MIMO 1:2 and 1:4 RF splitter/combiners optimized for the 2 to 7.5 GHz frequency band for use in high isolation wireless testbeds

The octoBox[™] 4x4MIMO splitter/combiner modules contain 4 matched 1:2 or 1:4 splitters/combiners for combining up to 4 MIMO RF ports into one. Conveniently mountable to the side of the octoBox[®], the 4x4MIMO modules can be used for creating wireless testbeds with multi-device topologies that require up to 4 MIMO devices to be coupled together. This module is completely isolated from outside interference and is specifically designed for use in high isolation octoBox testbeds.



Typical interconnection diagram showing 4 MIMO DUTs (devices under test) connected to splitter ports

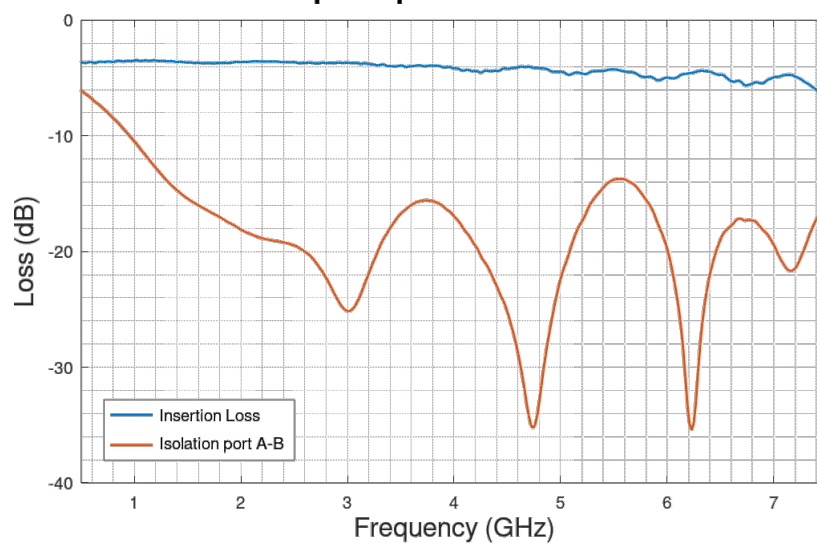
Applications

- Wi-Fi 6E, Bluetooth, D-LTE and LTE-Advanced testing
- octoBox testbeds, including
 - Video over Wi-Fi and multi-room house
 - Roaming
 - Mesh
 - Wi-Fi Alliance certification

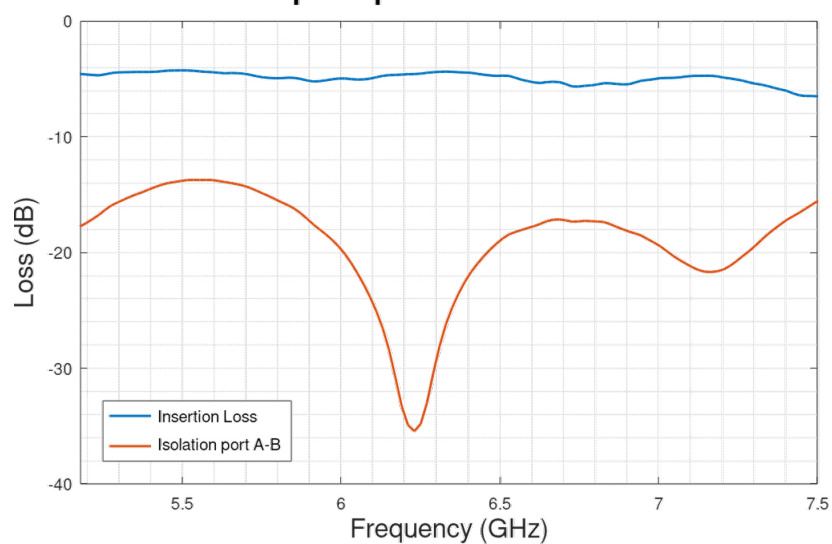
Specifications

- Frequency range: 700 MHz to 7.5 GHz
- Connectors: SMA
- Insertion loss (above theoretical 3/6 dB): 1 dB typ.
- Phase unbalance: 2 degrees typ. Amplitude unbalance: 0.1 dB typ. VSWR: 1.2 typ.
- Power Input (as a splitter): 10W max. Internal Dissipation: 1.2W max.
- DC Current (each port): 1A max. Completely isolated from outside interference

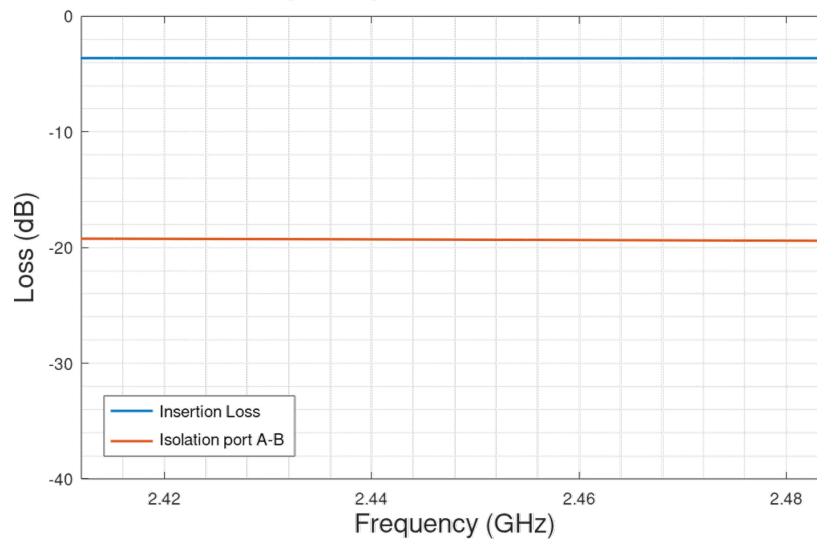
**Typical Insertion loss and Isolation
for 1:2 quadSplitter - full bandwidth**



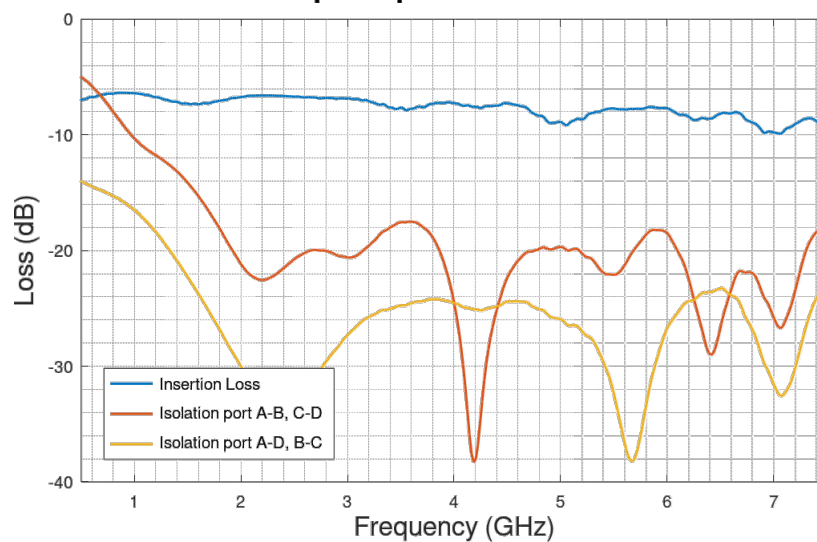
**Typical Insertion loss and Isolation
for 1:2 quadSplitter - 5 & 6 GHz Bands**



**Typical Insertion loss and Isolation
for 1:2 quadSplitter - 2.4 GHz ISM Band**



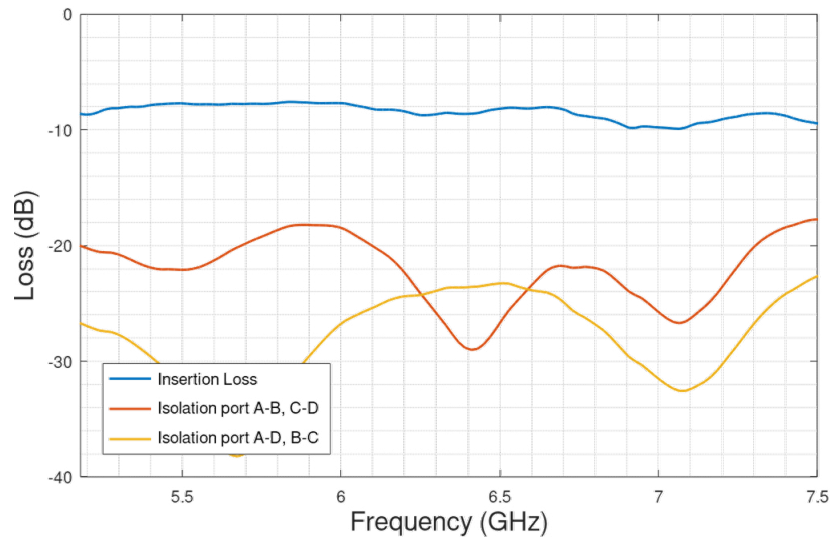
**Typical Insertion loss and Isolation
for 1:4 quadSplitter - full bandwidth**



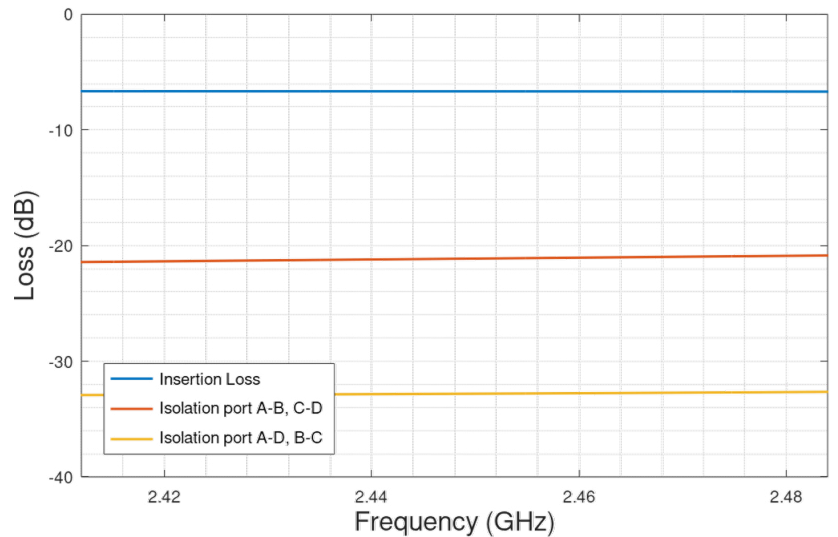
About octoScope

[octoScope, a Spirent Company,](#) is the market leader in automated testbeds for accurate, repeatable testing of Wi-Fi and 5G network functions and devices. Our highly-realistic, automated test suites save service providers, and device and network vendors millions in troubleshooting and customer care costs by enabling them to identify problems early in the development cycle before customers are impacted. Our patented testbed technology recreates real-world conditions in controlled testing environments to evaluate the performance of the latest Wi-Fi 6 and 6E, and 5G network equipment and devices. The combination of our solutions with Spirent's test portfolio enhances our automation and emulation capabilities, bringing even greater realism to our test suites and helping our customers innovate with unprecedented speed and efficiency.

Typical Insertion loss and Isolation for 1:4 quadSplitter - 5 & 6 GHz bands



Typical Insertion loss and Isolation for 1:4 quadSplitter - 2.4 GHz ISM Band



About Spirent Communications

Spirent Communications (LSE: SPT) is a global leader with deep expertise and decades of experience in testing, assurance, analytics and security, serving developers, service providers, and enterprise networks. We help bring clarity to increasingly complex technological and business challenges. Spirent's customers have made a promise to their customers to deliver superior performance. Spirent assures that those promises are fulfilled. For more information visit: www.spirent.com

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