

RF Signal Conditioning Components - Coax



Spectrum Control combines the strengths of Inmet and Weinschel, two highly regarded RF/microwave brands, to deliver a comprehensive signal conditioning solution. This enables engineers and program teams to achieve precise signal control, protect critical components, and ensure reliable performance across high-frequency and high-power RF systems.



Signal Need	Product	What it Does	How
Reduce	Attenuators	Control levels	Maintain signal accuracy without damaging sensitive components
Absorb	Terminations	Eliminate Signal Accuracy	Ensure stable, repeatable measurements & system behavior
Shape	Equalizers	Improve flatness	Optimize system performance without redesign
Bias	Bias Tees	Power through RF path	Simplify system design and reduce component count
Isolate	DC Blocks	Prevent DC interference	Protect RF chains from costly damage and downtime

Where Spectrum Delivers Value: A comprehensive suite of RF solutions enabling precise measurement, signal control, system protection, high power validation, and seamless DC/RF integration.

Applications



Wireless Test

- VNA & Calibration
- mmWave Testing
- Load handling & Burn-In



Electronic Warfare

- Gain, Attenuation, & Equalization
- Biasing & Isolation
- RF/DC systems



Radar & Antenna

- Radar
- Instruments
- Terminations

Attenuators



Controls amplitude, protects components, and manages gain structure: enable precise, repeatable signal control across high-frequency and high-power environments

- Up to 50 GHz | Up to 500 W
- Available in 1.85 mm for high-frequency applications

Terminations



Safely absorbs RF energy to protect systems and validate performance: ensures stable, operations and protects equipment during testing and high-power use

- Up to 65 GHz | Up to 1000 W
- Available in 1.85 mm for high-frequency applications, with additional 3.5 mm options

Equalizers



Corrects slope, ripple, and gain flatness across frequency bands: improves system performance and signal consistency without redesign

- Up to 50 GHz | Negative & positive slope, parabolic, custom, tunable, and ripple options
- Classified testing options available

Bias Tees



Injects DC into RF paths while maintaining RF integrity: simplifies RF/DC integration and reduces system complexity

- Up to 50 GHz

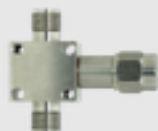
DC Blocks



Prevents undesired DC flow while preserving RF performance: protects sensitive components and improves long-term system reliability

- Up to 50 GHz | Up to 900 V

Power Dividers & Splitters



Accurately divides signals for distribution and leveling applications: maintains signal integrity across multiple paths in complex RF systems

- Up to 40 GHz | Up to 1 W



About Spectrum Control

Spectrum Control is a mission-focused technology company delivering innovative, adaptable solutions across RF, optical, power, digital, and EMI protection that go beyond specifications to support system performance and program success.

RF Signal Chain

Power/Protect/
Interconnect

Communications
& Data Layer

To learn more about these products or
Spectrum Control email us at
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