

PRODUCT LINE CARD

Passive Coaxial Components



Spectrum Control is home to Inmet and Weinschel, two of the most widely respected brands in the in the RF/Microwave industry for passive coaxial components. By leveraging the strengths of each brand, Spectrum Control can provide customers with solutions ranging from simple test bed validation to the most demanding space-level environments.



Fixed Attenuators

- Frequency ranges to 50 GHz (DC) with power handling up to 500 watts
- Connector types: SMA, N-type, 2.4mm, 2.92mm (SMK), 1.85mm
- Constructed of stainless steel with excellent stability and VSWR
- High performance and cost-effective solution



Terminations

- Frequency ranges to 65 GHz (DC) with power handling up to 1000 watts
- Connector types: SMA, N-type, 2.4mm, 2.92mm (SMK), 1.85mm
- Suitable for a range of military and commercial applications



Gain Equalizers

- Frequency ranges to 40 GHz with negative and positive slope, parabolic and ripple options
- Connector types: SMA, N-type, 2.4mm, 2.92mm (SMK)
- Correct the gain-frequency response of complex communication systems to increase serviceable bandwidth
- Introduce a loss profile opposite of the cable loss, resulting in a uniform slope
- Field-adjustable technology optimized specifically for mm-wave applications



Bias Tees

- Frequency ranges to 50 GHz (DC) with power handling up to 50 watts
- Connector types: N-type, SMA, 2.4mm, 2.92mm (SMK)
- Manufactured for maximum performance and minimal disruption
- Combine quality and performance in a standard three-port network
- Manufactured for maximum performance and minimal disruption



Coaxial Connectors

- Planar blind mate products with frequency ranges to 40 GHz (DC)
- Connector types: SMA, N-type, 2.4mm, 2.92mm (SMK), 3.5mm
- Used as a pair or set comprised of two connector subassemblies that have a common mating interface
- Each connector pair will tolerate typically 0.02 inches per pair of radial and axial offset misalignment and still meet electrical specifications



DC Blocks

- Frequencies range to 50GHz (DC) and voltage ratings to 950V
- Connector types: SMA, N-type, 2.4mm, 2.92mm (SMK)
- Ideal where undesired DC or audio current flows in the system
- Prevent the flow of direct current frequencies while offering minimum interference to RF signals
- Available in inner only, outer only and inner/outer designs



Power Dividers & Splitters

- Frequency ranges up to 40 GHz (DC) with power handling up to 1 watts
- Connector types N-type, SMA, 2.4mm, 2.92mm (SMK)
- Power dividers designed for applications where an RF and Microwave signal must be accurately divided or combined
- Power splitters are intended for RF and wireless applications in which one of the two outputs is included in a leveling loop or is used as a reference in a ratio system



Coaxial Accessories

Dust & Moisture Caps

- Ideal for sealing ports for shipping or storage
- Connector types: SMA, N-type, 2.4mm



Coaxial Adapters

- Offered as precision in-series and between series styles
- Available in many combinations of SMA, N-type, 1.85mm, 2.4 mm 2.92 (SMK) connector types

Spectrum Control's customers benefit from unparalleled engineering and industry expertise. We provide complete standard and custom solutions in a timely manner. Our in-house machining, state-of-the-art engineering, and technology integration provide for rapid turn-around from prototype to production.