

Mtron's High Power Handling Multi-Octave N-Plexers for EW Applications

Building on the success of n-plexers developed over the past decade, Mtron is introducing high-power handling multi-octave n-plexers for electronic warfare (EW) applications. These products are available in lumped element, cavity, and suspended substrate topologies. The versatility and performance of multi-octave n-plexers empower modern EW systems with the capabilities crucial for effective threat detection and response.

Key Features and Benefits:

Reception and Analysis of Spread-Spectrum Signals:

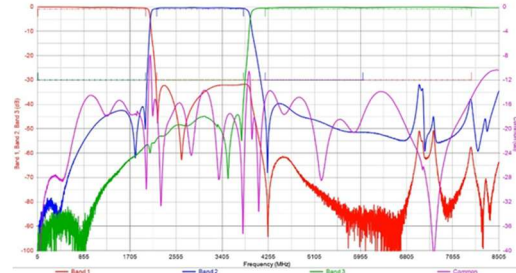
Facilitates real-time analysis and processing across a broad spectrum of signals which is essential for promptly identifying and responding to threats in dynamic electromagnetic environments.

Better Signal to Noise Ratio: Enhances the signal-to-noise ratio by isolating desired signals from background noise. This heightened sensitivity empowers EW systems to detect and track weaker signals amidst the most challenging spectrum conditions.

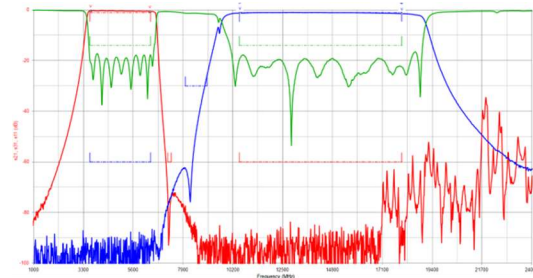
Agility and Adaptability: Multi-octave n-plexers enable rapid frequency switching and response to emerging threats. Used in modern electronic warfare tactics like frequency-hopping and direct-sequence spread-spectrum techniques.

Product portfolio:

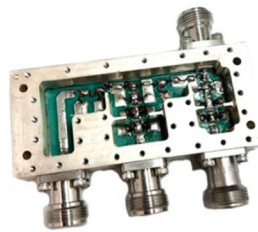
- Multi-octave bands
- Low signal loss <1.0dB
- High power handling designs available



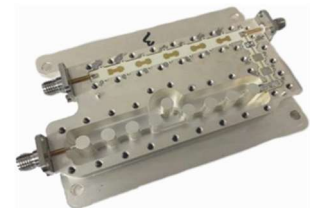
Filter 1: Three channels: 1-2GHz, 2.2-3.8GHz and 4.2-8.0GHz



Filter 2: Two channels: 3.6-6.5GHz, 10.5-18.0GHz



Filter 1



Filter 2

About Mtron: Mtron is a leading provider of filters, oscillators, and solutions for defense and aerospace applications. With a legacy of innovation spanning nearly 60 years, Mtron continues to be a trusted partner for organizations seeking reliable and high-performance products and solutions.

For inquiries and to learn more about our Electronic Warfare solutions, contact us:

<https://www.mtronpti.com/contact>