

Mtron provides a broad portfolio of high-performance RF and microwave solutions supporting data links for unmanned aerial vehicles (UAVs), unmanned sea vessels (USVs), and counter-unmanned aerial systems (C-UAS). Mtron’s filters, multiplexers, and integrated microwave assemblies enable secure, wideband, real-time transmission of command, control, sensor, video, navigation, and mission-critical payload data in demanding and congested operational environments.

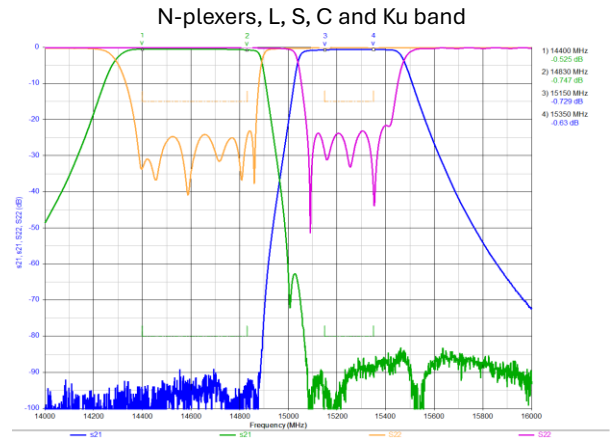
**Key Features and Benefits**

Mtron solutions deliver RF signal conditioning for reliable UAV, USV, and C-UAS operation. High-selectivity filters and strong out-of-band rejection reduce interference and jamming in congested spectrum environments. Low insertion loss improves link budget efficiency, extending range and increasing data throughput. SWaP-optimized designs enable integration into compact platforms, while ruggedized construction supports operation in harsh environments. High thermal stability and power handling ensure consistent performance across mission profiles, enabling secure communications, accurate tracking, and resilient command-and-control.

**Applications**

Mtron solutions are used in UAVs, USVs, loitering munitions, ground-based C-UAS systems, airborne platforms, and multi-domain networks. They support command-and-control, ISR, telemetry, video downlink, navigation, electronic warfare (EW), and situational awareness. These capabilities ensure reliable, secure data links and sustained RF performance in contested and spectrum-congested environments

**About Mtron:** Mtron designs and manufactures in our USA-based vertically integrated facilities where the products and solutions are developed and fully tested in-house to our customer’s rigorous requirements. Mtron is an ISO 9001:2015 and AS9100 Rev. D certified organization.



Ku-band Diplexer plot

