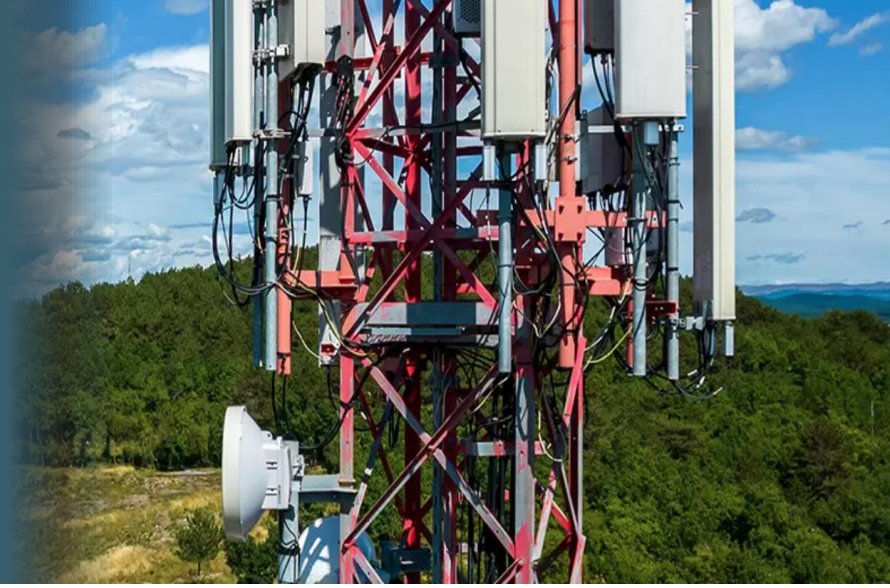
MICROWAVE

Interference Mitigation

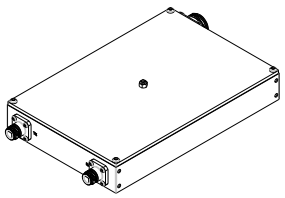


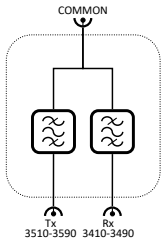
With multi-band radios and base station antennas deployed at crowded cell towers, the RF environment is increasingly crowded and complex. Our low PIM cavity filters, duplexers, triplexers, and multiplexers ensure minimal Passive Intermodulation products (IM3, IM5, IM7). Our portfolio also includes ultra-narrowband, high power bandpass and notch filters with sharp roll-offs.

Low PIM

CBRS Duplexer

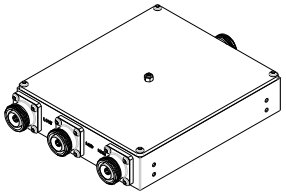
3410 - 3490 | 3510 - 3594 MHz
1.5 dB insertion loss (max)
20 dB return loss (min)
90 dB rejection

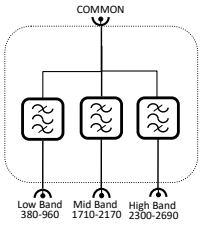




Tri-band Combiner

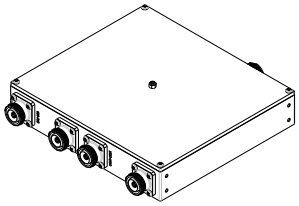
380 - 960 | 1710 - 2170 | 2300 - 2690 MHz
0.5 dB insertion loss (max)
20 dB return loss (min)
200W max / 1500W peak Tx power per band

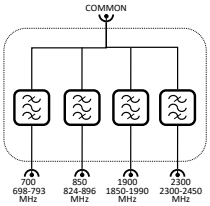




Quadruplexer

698 - 793 | 824 – 896 | 1850 – 1990 | 2300 – 2450 MHz
0.8 dB insertion loss (max)
20 dB return loss (min)
200W max Tx power per band





MITIGATING OUT-OF-BAND EMISSIONS (OOBE)

Ultra-narrowband 1 MHz bandpass filter

757 – 758 MHz | 787 – 788 MHz

Compact dielectric resonator loaded cavity duplexer

Dual MIMO, LTE band 13/14. Pole mount, IP67, ruggedized

MICROWAVE

Materials | Customization | Vertically Integrated

MCV Microwave has been a leader in ceramic filters and resonators since 2000. Headquartered in Laurel, Delaware and AS9100D certified, MCV Microwave supplies many Fortune 500 companies in commercial wireless and high reliability aerospace and defense markets. Its proprietary high Q dielectric ceramic materials deliver the highest performance for TE mode dielectric resonators in the industry. MCV Microwave leads in providing one of the smallest footprint and low-profile filters suitable for space flight applications.

mcv-microwave.com | 302-877-8079 | sales@mcv-microwave.com