

Diplexing Filters Overview

Diplexing filters from Jaybeam Wireless allow operators to deploy Dual Band antennas without increasing the number of feeder cables at the site. This allows existing sites to be upgraded from single band to dual band without the additional cost, weight, and wind load of new feeder cables.

The same filter used at the base of the tower to combine bands can also be used at the top of the tower to separate the bands for routing to the appropriate antenna ports. Jaybeam's diplexing filters are IP65 rated and are capable of withstanding harsh tower top environments.

Two typical Dual Band site configurations featuring internal and external diplexing filters are shown for reference. In each example, only one antenna and two feeder cables are required to support dual band Tx, Rx, and Diversity Rx per sector.

For sites utilizing Tower Mounted Amplifiers or AISG Modems, careful consideration must be given to the DC path used to supply power and control to those devices. To support these applications, Jaybeam Wireless offers Diplexing Filters with DC open circuits on the center conductor between one or more RF ports.

For additional information regarding available options, please contact Jaybeam Wireless Customer Service.

