

Daren's BLACOM21VU & DFMO Blog Excerpt

The Blake UK DFMO aerial is a fantastic piece of kit because it allows you to receive both your digital DAB radio and your analogue FM radio through a single antenna. While still maintaining Blakes now renowned Triple Filtered Design.

This is great for keeping things tidy and avoiding a forest of aerials on your roof. However, your radio receiver or hi-fi system might have separate inputs for DAB and FM. This is where our star of the show, the diplexer, comes into play. It is designed to work seamlessly with the frequency ranges used by TV, DAB, and FM.

This diplexer operates across a wide frequency range. For the COM-VHF port, which would typically handle the FM/DAB signal, it covers frequencies from 5 to 230 MHz. The insertion loss here is pretty minimal, typically around 1 dB, which means you shouldn't see a significant drop in your FM signal strength.

On the other side, the COM-UHF port is designed for TV, covering frequencies from 470 to 694 MHz. Again, the insertion loss is kept low, generally around 1 to 3.5 dB depending on the specific frequency within that range.

One of the really handy features of this particular diplexer is its compatibility with the Blake UK DFMO. These combined aerials are becoming increasingly popular, and having a diplexer specifically designed to work with them makes installation a breeze. Instead of running two separate aerial cables, you can use the DFMO's single output, connect it to the diplexer, and then have separate feeds for your DAB and FM devices. Another interesting specification is the capability of DC Power Pass. This diplexer allows for a 12V DC power supply at 100mA to pass through.