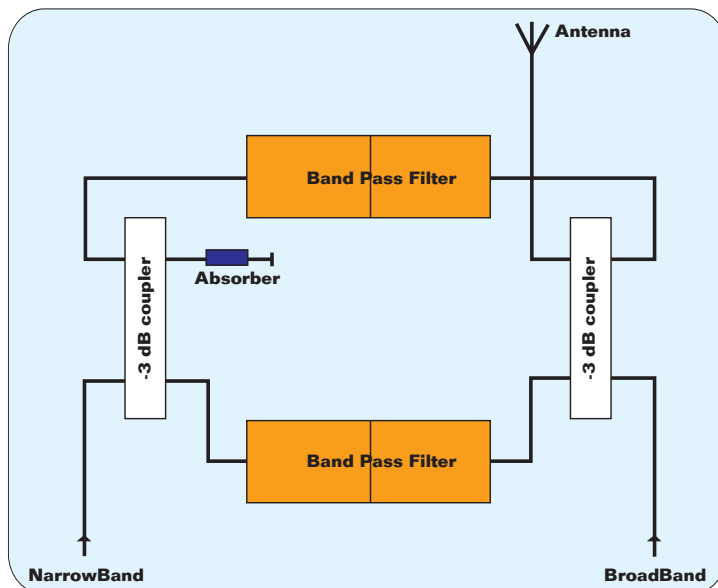


Description of a Double Balanced Bridge

The double balanced bridge consists of units, each comprising two band pass filters, two 3 dB couplers and a dummy resistor (absorber).

- One of both inputs has a narrow band characteristic, while the remaining input features a broadband characteristic.
- Frequency independent input impedance
- The frequency at the broadband input can be varied without retuning of the pass-band cavity filters.
- The broadband input can be used as spare input for expansion without requiring modification of the existing pass-band cavity filters.
- If only narrow band input is being used, an extremely high coupling attenuation (directional coupler attenuation plus filter attenuation) can be achieved for very small frequency spacings.



The double bridge filter is factory tuned. When ordering, please specify the desired operating channel for the narrow band input. The broadband input accepts, however, any frequency range. The devices can also be tuned by the customer. Detailed instructions and adjustment tools are supplied with each unit.

Schematic block of double bridge diplexer

