

# Co-Site Interference Canceler/Filter

SW-0400

## Features:

- Capable of canceling large interfering signals up to 30 dBm at the co-site antennas while maintaining less than 4 dB of increase in Noise Figure when in the cancel mode
- Fast power detection allows use on most high power half duplex radios with no reduction of sensitivity when not in the cancel mode
- Option to use for full duplex applications
- Can be set for use with both VHF and UHF bands

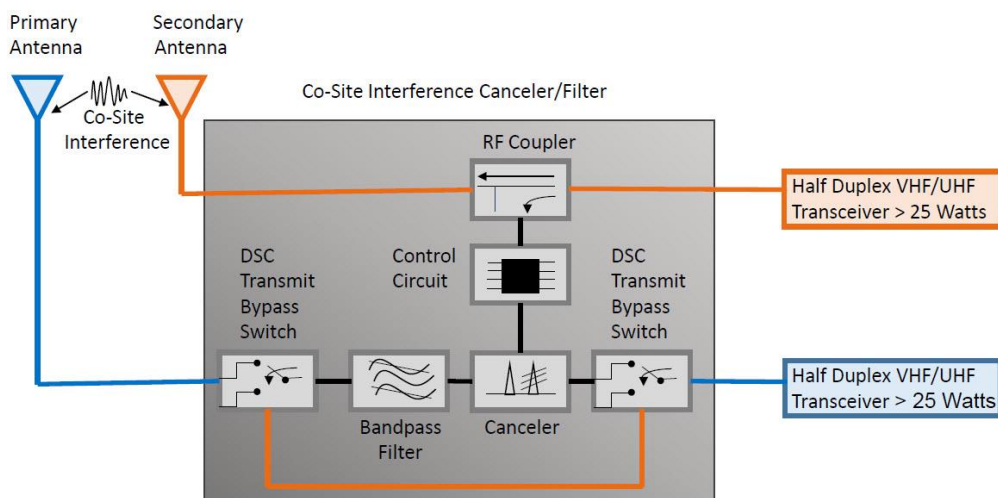


## Applications:

- To reduce antenna transmission interference with a co-site antenna(s) on mobile for fixed platforms
- For applications where space and simplicity of operation is required
- Where the co-site interference is too high in power or too close in frequency to filter

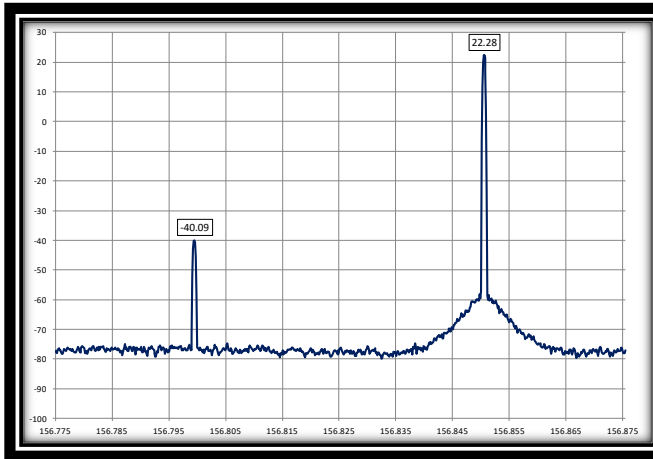
## Description:

The SimWave Canceler/Filter allows co-site antennas to operate in close proximity by canceling the cross interference. The SW-0400 utilizes complementary canceler and filter technology to solve the problem of wideband co-site interferer variability providing much broader rejection than otherwise capable in other approaches in a cost effective solution. SimWave's smart canceler technology recognizes the presence of an interferer and reacts to mitigate the interferer while maintaining the best possible receiver dynamic range.

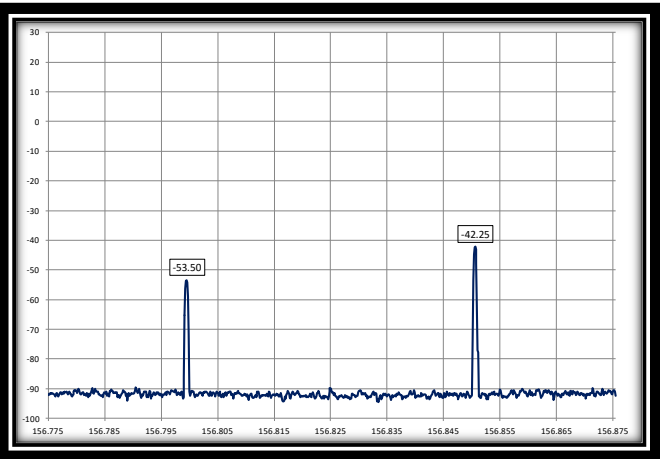


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## Performance Data:



Bypass Mode



Canceler/Filter Mode

## Options:

- Can be optimized for VHF to UHF band.
- Option to cancel multiple antennas.
- Option to be used for full Duplex operation.