



# “Ferrite Isolator Design 101” (outline)

- Behavior of ferrites
- Principles of operation and construction
- Resonance isolator
- Field displacement circulator
- Phase shift circulator
- Faraday rotation circulator
- Ring circulator
- Junction circulator
- Edge guided mode circulator
- Lumped element circulator
- Characteristics
  - Correlation of parameters of a symmetrical 3-port-circulator
  - The lossless symmetrical 3-port-circulator
  - The lossy symmetrical 3-port-circulator
- Decoupling of generator and load
- Decoupling of amplifier stages
- Decoupling of a transmitter or receiver from its antenna
- Transmitter and receiver on the same antenna
- Combiner for 2 or more transmitters in the VHF and UHF
- Combiner for radio links
- Combining amplifier stages in a solid-state transmitter
- Operation of one-port-amplifiers
- Locking and priming of oscillators
- Variable attenuator and phase shifter

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