

## **Artisan Laboratories Corporation / Ben Franklin**

### ***Wideband Active Diplexer Circuit***

The investigation will perform a design and simulation study of an active wideband diplexer. This diplexer will allow both transmission and reception to/from a single antenna of low power signals (constant -10 dBm) over one of three frequency bands with a specified level of isolation between the transmitter and receiver. Current frequency diplexers are available in MMIC form but may not provide the requirements for existing application.