



# Commercial Products

## 5-Pole Reflectionless Bessel Low-Pass Filters

**PN 469281**



### FEATURES

- 5th Order Bessel-Thompson transfer characteristics
- User defined 3 dB cutoff frequencies
- Extremely linear phase
- Reflectionless in rejection band of filter

### APPLICATIONS

- High data rate systems requiring noise bandwidth control
- BER optimization
- Pulse shape control

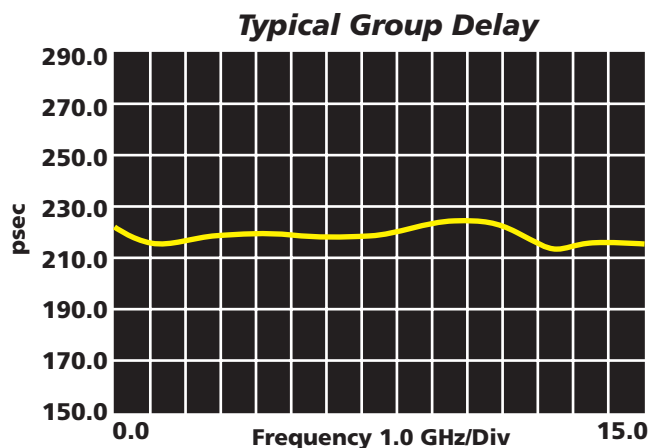
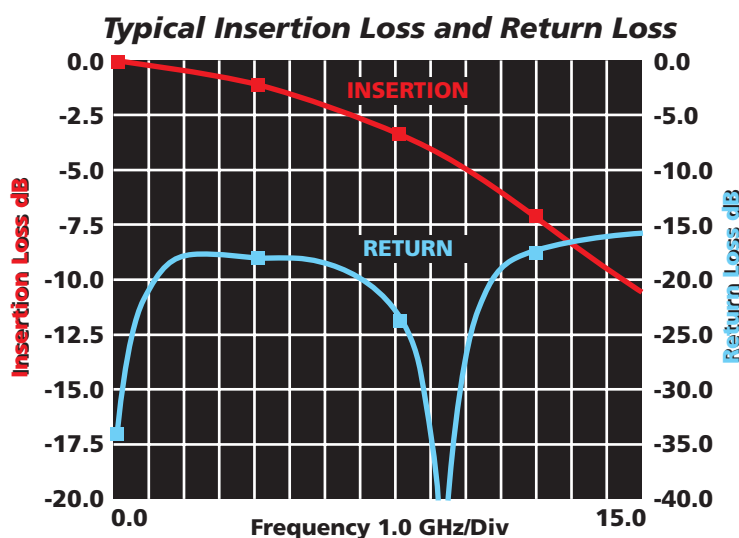
### TYPICAL PERFORMANCE

- Insertion Loss                      0.2 dB (100 MHz)
- Return Loss                         >15 dB (up to 3x $F_c$ )
- Group Delay Variation <10 psec (p-p)

This high performance Absorptive Low Pass Filter approximates a 5th order Bessel Thompson Filter with linear phase and low return loss extending well beyond the filter 3 dB bandwidth.

It is intended to be used in high data rate communication systems requiring noise bandwidth control and linear phase.

The filter is available at user defined 3 dB points with guaranteed group delay and return loss performance for applications up through OC-768 data rates.



5201-084B