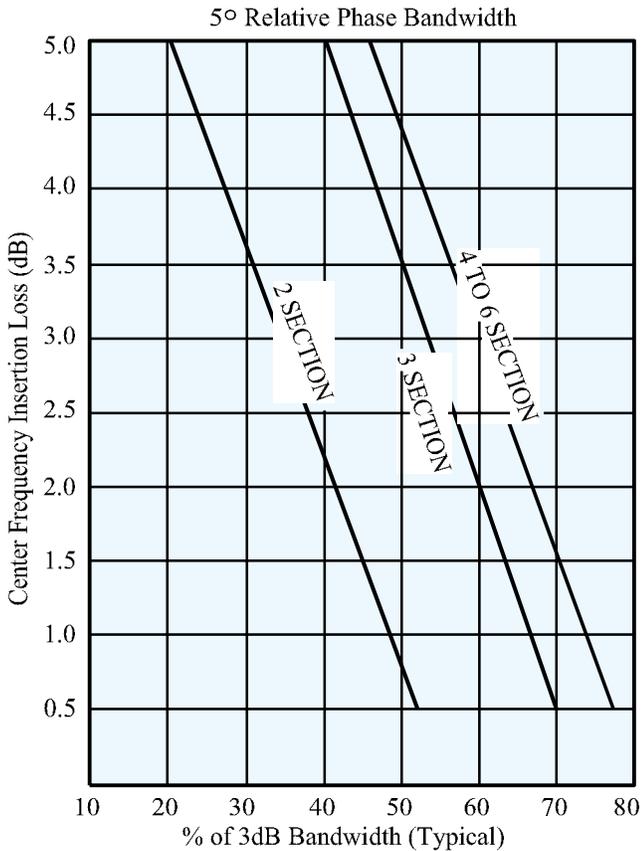
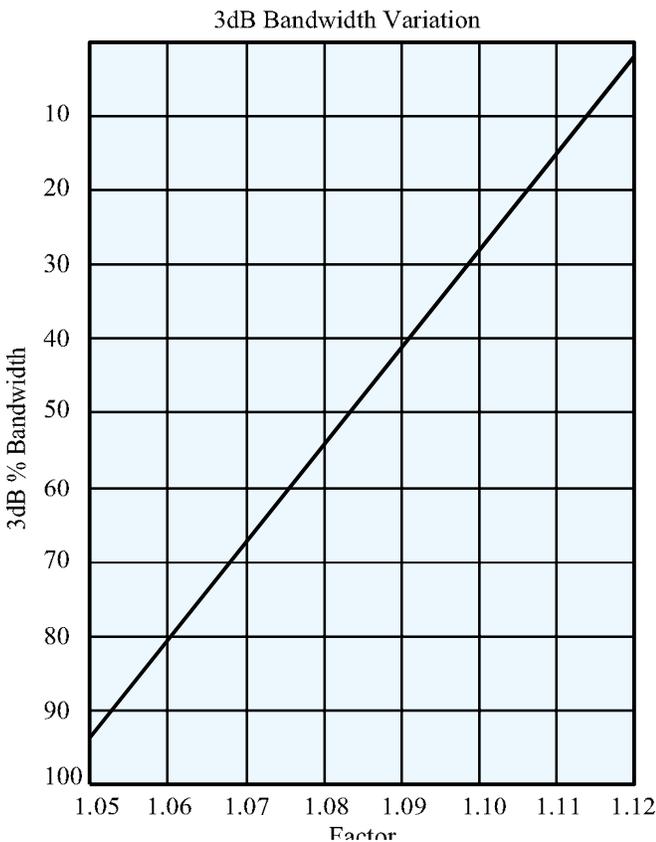


GENERAL PERFORMANCE SPECIFICATIONS



5° phase bandwidth vs 3dB bandwidth: This graph serves as a general guide for filter requirements regarding phase linearity. As an example, a four section filter with an insertion loss of 3.0 dB at center frequency should exhibit plus or minus 5° linearity over 60% of the bandwidth.



Since the 3dB bandwidth is the minimum bandwidth, the typical maximum bandwidth may be of some concern. This graph defines the typical variation incurred in the manufacturing process.

Example: In a bandpass filter,
 center frequency = 100 MHz
 3dB bandwidth = 30 MHz
 3dB % Bandwidth = 30%
 from the chart at 30%,
 The factor = 1.10. Therefore, the 3 dB relative bandwidth could vary from 30 MHz to 33 MHz.

Note: If bandwidth is of concern, specify a maximum 3dB bandwidth when discussing specifications with our Engineering Department. In some cases, we may exceed this tolerance to reduce center frequency insertion loss.