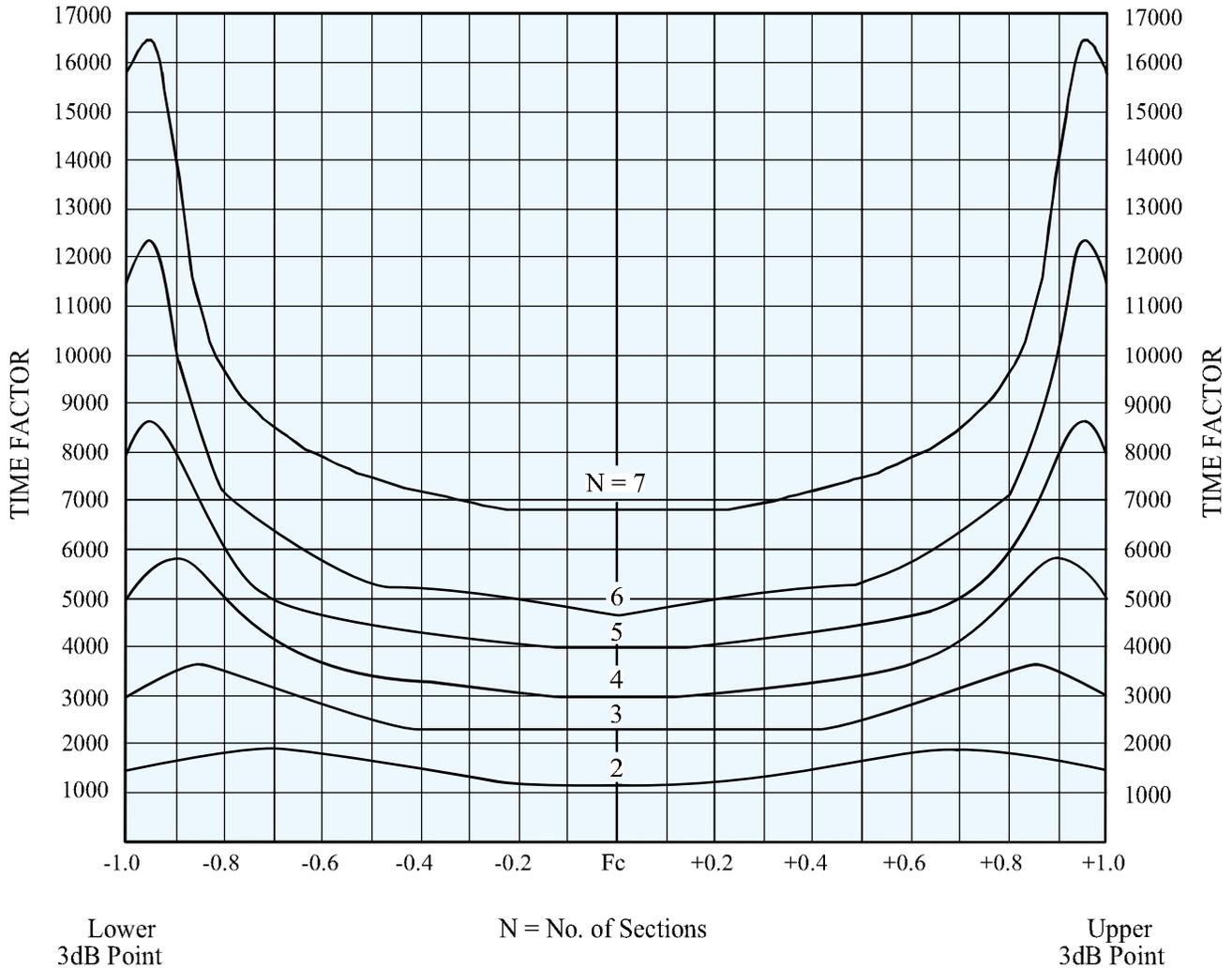


GENERAL PERFORMANCE SPECIFICATIONS

GROUP/TIME DELAY



The approximate group/time delay of a Lark filter can be calculated as follows:

$$\frac{\text{TF}}{3\text{dB BW (MHz)} \times N} = \text{Nanoseconds}$$

Where TF is the time factor taken from the graph above and 3dB BW (MHz) is the filter 3dB relative bandwidth in MHz.

Example:

A 4 section filter, with 3dB bandwidth equal to 300 MHz would have a group /time delay at F_c of approximately:

$$\frac{3000}{300 \times 3.14} = \frac{3000}{942} = 3.18 \text{ Nanoseconds}$$

The same filter would have a group/time delay at F_c plus or minus 105 MHz of:

$$\frac{4000}{300 \times 3.14} = \frac{4000}{942} = 4.25 \text{ Nanoseconds}$$

For more precise information, contact our Applications Engineering Department.