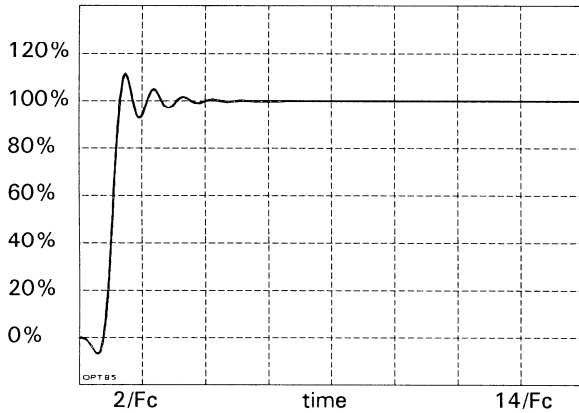


↓ Figure 1: step response vs. time



Description

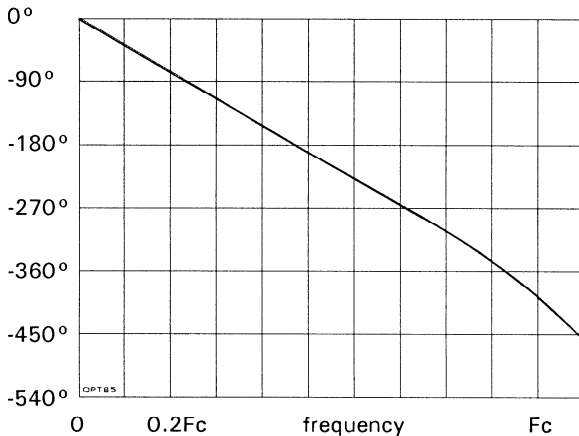
The Option 85 response has a nominally flat passband; it has ripple of 0.2dB up to 0.95 the cutoff frequency, is -0.35dB at the cutoff frequency and has a stopband of -78dB starting at 2 times F_c (see figures 3 and 4).

The Option 85 is a good choice for alias prevention work where moderately sharp characteristics are needed and where fairly good phase and time characteristics are required. Settling time, vector error and phase linearity are better on the Option 85 filter than on comparable elliptic and other flat passband responses.

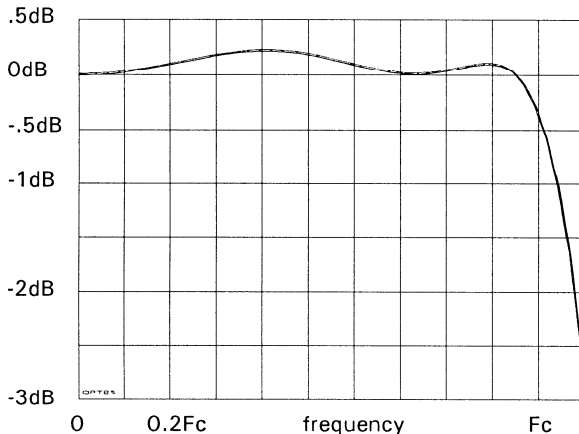
Option 85 is a good choice for higher frequency programmable filters as it is designed to be less demanding of the active circuitry used to implement the filters. Advanced computer optimisation techniques were used to allow minimisation of both active component sensitivity and passband 'vector error', our measure of total amplitude- and phase-induced waveform distortion.

This response is not available in a highpass version.

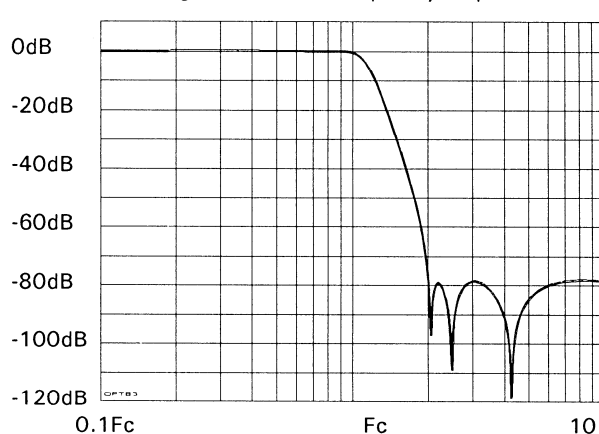
↓ Figure 2: passband phase response



↓ Figure 3: passband amplitude response



↓ Figure 4: overall frequency response



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