

AN005 - C60 Application Note

High resolution plots – elliptic low pass filter

The **amplitude response** of a 10KHz passive elliptic low pass filter was resolved using 10,000 test points. The filter has some very sharp notches which can be missed if a low resolution test is performed. A script file was written to concatenate the ten sections of the response.

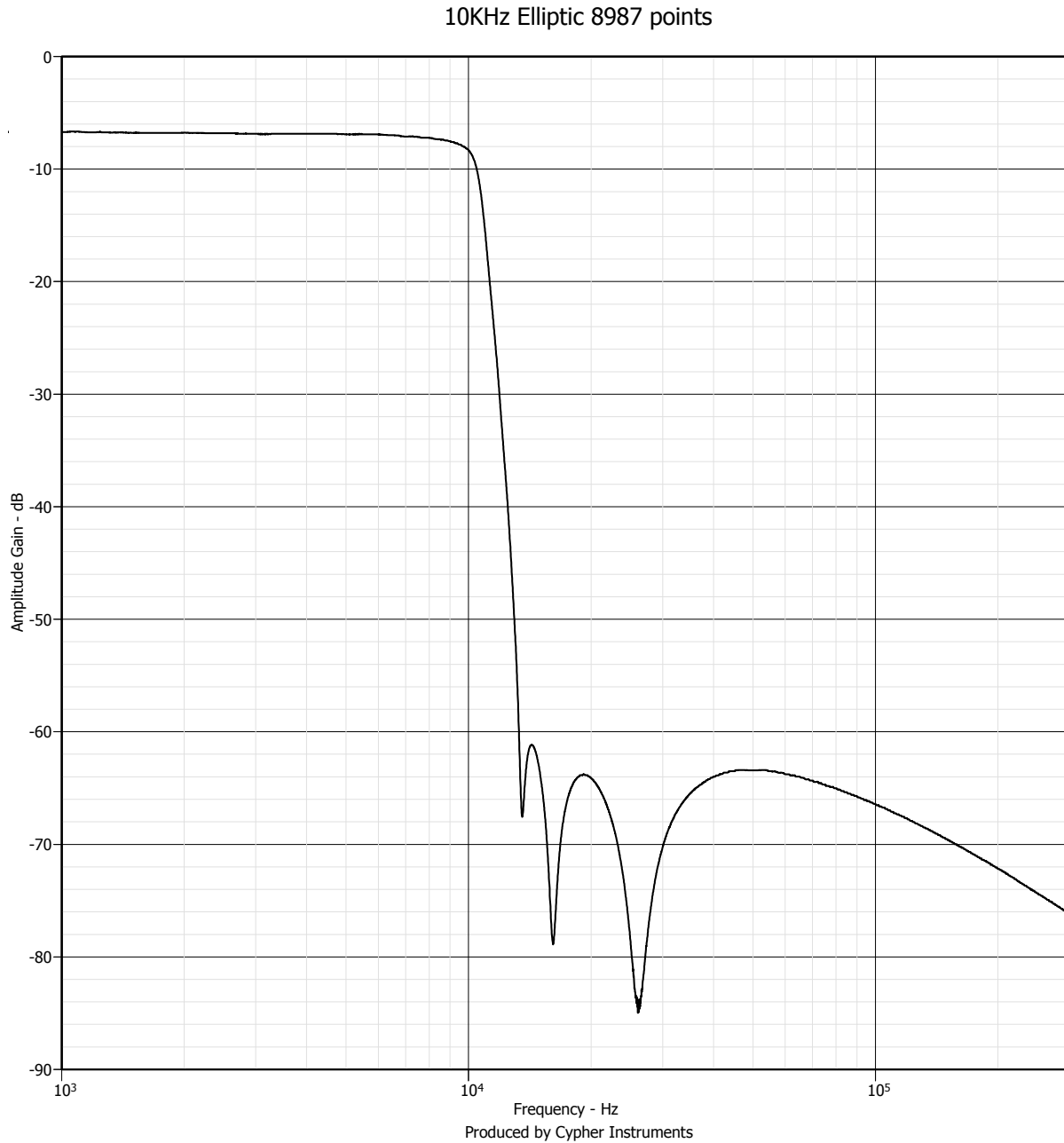


Figure 1. 8987 point amplitude graph

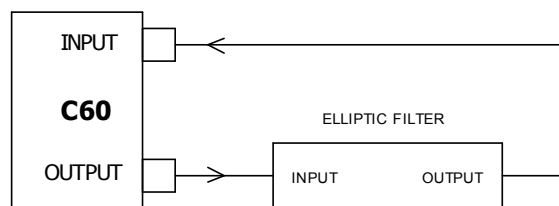


Figure 2. Connection diagram

Another elliptic low pass filter is shown in Figure 3. The phase plot shows the sudden 180° phase reversal that occurs when the response passes through a deep notch.

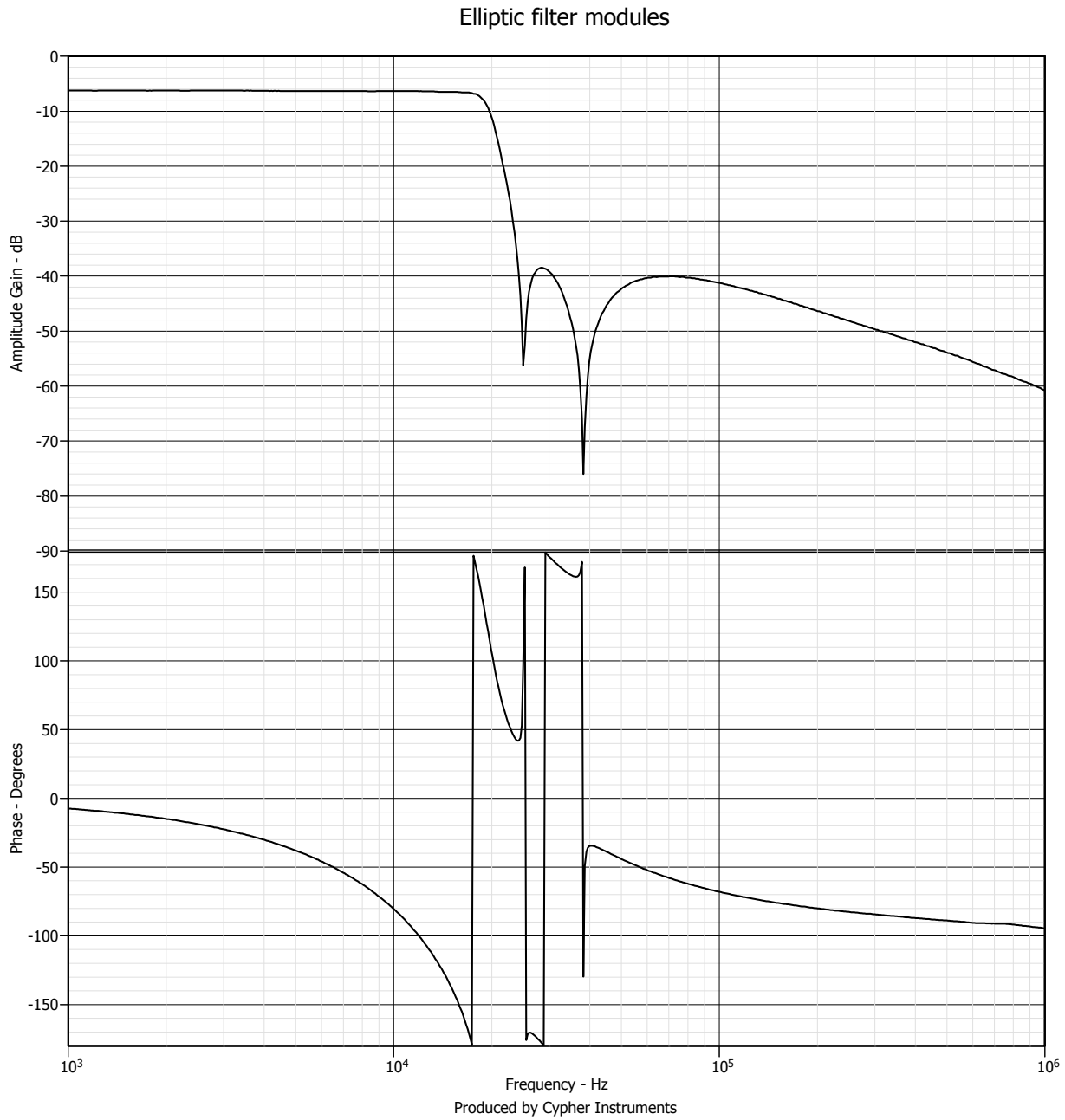


Figure 3. Amplitude and phase plot