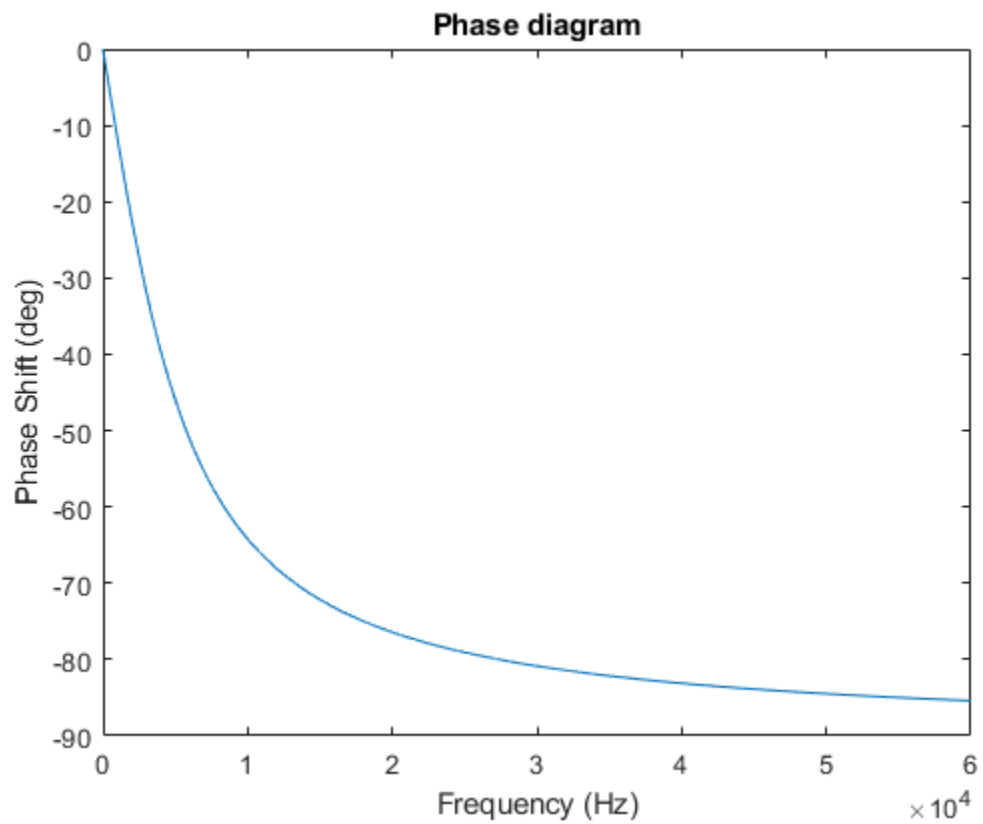
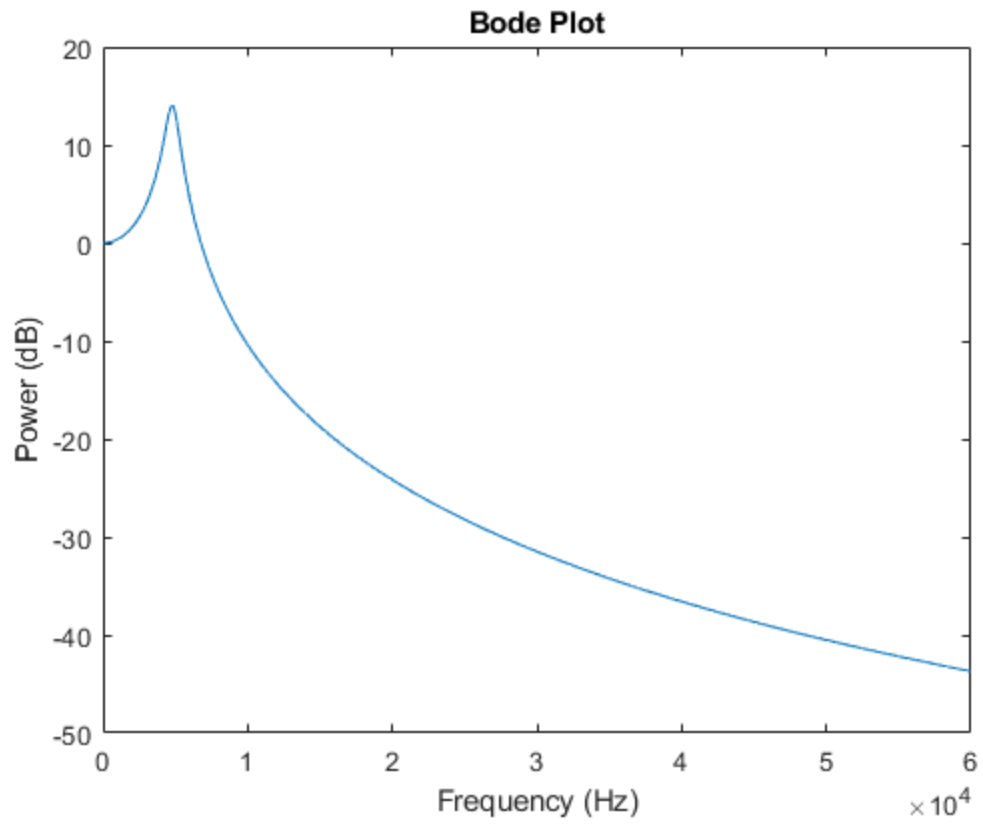

```
clear,clc,close all

R = 1300000;
C1 = 0.01e-6;
C2 = 100e-12;

[wo, Q] = plotSK(R,C1,C2);

function [wo, Q] = plotSK(R,C1,C2)
    w = 0:60000;
    wo = 1/(R*sqrt(C1*C2))*2*pi;
    Q = 1/2*sqrt(C1/C2);
    P = 20*log10(wo^2./sqrt((wo^2-w.^2).^2+wo^2.*w.^2./Q^2));
    phi = -atand(w/wo);

    plot(w,P);
    title('Bode Plot')
    xlabel('Frequency (Hz)')
    ylabel('Power (dB)')
    figure
    plot(w,phi);
    title('Phase diagram')
    xlabel('Frequency (Hz)')
    ylabel('Phase Shift (deg)')
end
```



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