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```
WP = 6e3; %Passband Edge 6kHz
WS = 2.4e3; %Stopband Edge 2.5kHz
Rp = 0.25; %Peak Passband Ripple
Rs = 40; %Stopband Attenuation

[N,~] = buttord(WP,WS,Rp, Rs, 's');
fprintf('Butterworth Filter Order | %g\n', N);

Butterworth Filter Order | 7
```

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