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```
clear all
wc = 0.5*pi;
N=25;
alpha = (N-1)/2
eps=0.001;
n=0:1:N-1;
hd=sin(wc*(n-alpha+eps))-sin(wc*(n-
alpha+eps))./(pi*(n-alpha+eps));
wr=boxcar(N);
hn=hd.*wr';
w=0:0.01:pi;
h=freqz(hn,1,w);
plot(w/pi,abs(h));
hold on
wb= blackman(N);
hn=hd.*wb';
h=freqz(hn,1,w);
plot(w/pi,abs(h),'-.');grid;
xlabel('Normalized Frequency\omega\pi');
ylabel('Magnitud');
```

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