

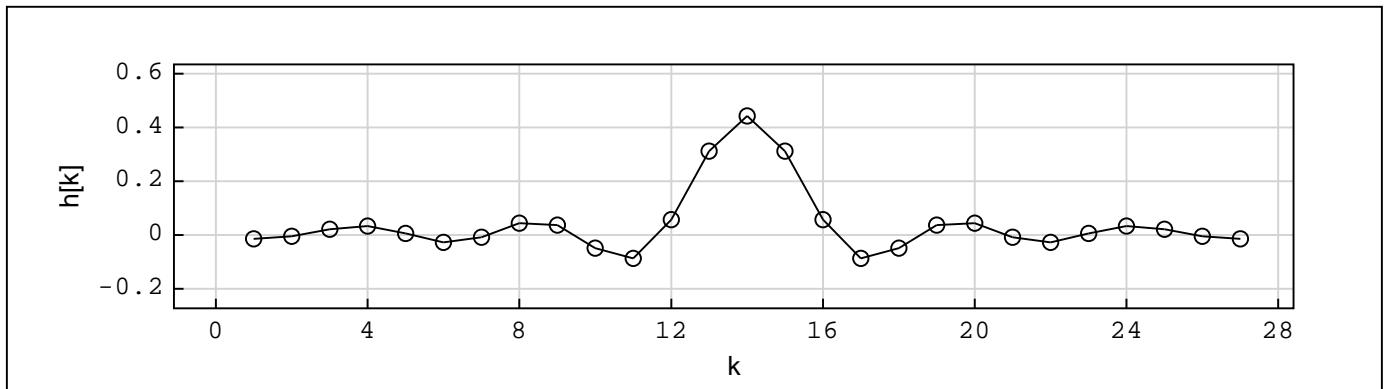
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bands := stack(1, 0)      freq := stack(0, 0.2, 0.25, 0.5)      Rp := 1      Rs := 40

$$\Delta_p := 0.5 \cdot \left( 1 - 10^{-\frac{Rp}{20}} \right) = 0.0544 \quad \Delta_s := 10^{-\frac{Rs}{20}} = 0.01$$

n := round $\left( \frac{-10 \cdot \log_{10}(\Delta_p \cdot \Delta_s) - 13}{14.6 \cdot 0.05} \right) = 27 \quad verr := stack\left( 1, \frac{\Delta_p}{\Delta_s} \right) = \begin{bmatrix} 1 \\ 5.4375 \end{bmatrix}$ 
h := remez(freq, bands, verr, n)
hplot := augment([1..n], h)

```

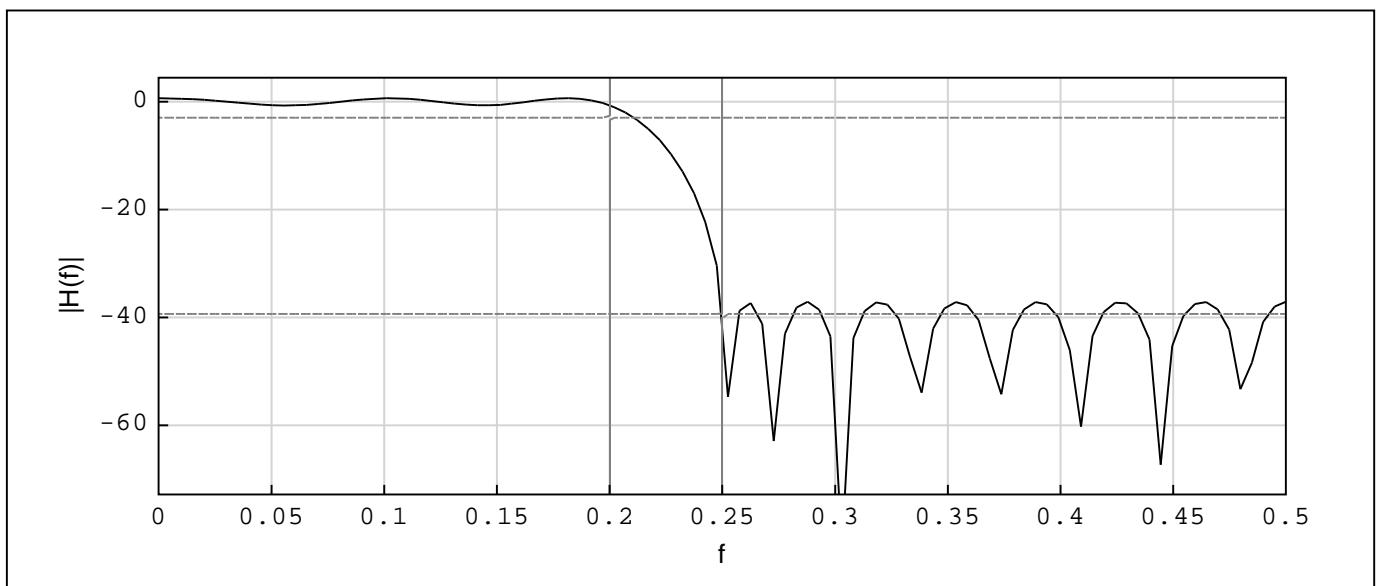


hplot

$$H(x) := \sum_{k=1}^n h_k \cdot \exp(-i \cdot 2 \cdot \pi \cdot x \cdot k)$$

$$m1(x, Y) := \frac{x - freq}{Y + 3}^2 \quad m2(x, Y) := \frac{x - freq}{Y + 40}^3$$

$$Hplot(x) := 20 \cdot \log_{10}(|H(x)|)$$



$$\begin{cases} Hplot(x) \\ m1 \\ m2 \end{cases}$$