

Diagramas de Bode

A	1db	Diagrama lineal	φ	
K (real)	$20 \cdot \log K $	$K > 1$ $K = 1$ $K < 1$	$0, \pi$	
f/f_1	$20 \log (f/f_1)$	f_1	$\pi/2$	
$1/f/f_2$	$-20 \log (f/f_2)$	f_2	$-\pi/2$	
$1 + f/f_c$	$20 \log \sqrt{1 + (f/f_c)^2}$	f_c	$\arctg(f/f_c)$	
$1 / (1 + f/f_p)$	$-20 \log \sqrt{1 + (f/f_p)^2}$	f_p	$-\arctg(f/f_p)$	

Diagrama de Bode aproximado de A_v del filtro paso alto
 $f_a = 100 \text{ Hz}$

$$A_v(f) = \frac{f/f_a}{1 + f/f_a}; \quad |A_v| = 20 \log \left(\frac{f}{f_a} \right) - 20 \log \sqrt{1 + \left(\frac{f}{f_a} \right)^2}$$

$$\varphi = \pi/2 - \arctg \left(\frac{f}{f_a} \right)$$

