

Gain–Bandwidth Product

General Expression

$$A(f) = \frac{A(0)}{1 + jf/f_b}$$

Gain and Bandwidth Notation

Description	General Gain	DC Gain	Bandwidth
Device Alone	$A_{OL}(f)$	$A_{OL}(0)$	f_{bOL}
Circuit	$A_{VOL}(f)$	$A_{VOL}(0)$	f_{bVOL}
Circuit and Load	$A_V(f)$	$A_V(0)$	f_b

Gain–Bandwidth Product

$$A_{OL}(0) f_{bOL} = A_{VOL}(0) f_{bVOL} = A_V(0) f_b$$