



Frequency variable	Periodicity (P) (filter input)	Filter bandwidth	Units
f	$1/T$	$0.5 \cdot P$	cycles / sec (Hz)
$f \cdot T/L$	$1/L$	$0.5 \cdot P$	cycles / sample
$2f \cdot T/L$	$2/L$	$0.5 \cdot P$	half-cycles / sample (Matlab standard)
$\omega = 2\pi f \cdot T/L$	$2\pi/L$	$0.5 \cdot P$	radians / sample (Z-transform)