TABLE 8.6 Summary of Prototype Filter Transformations $\left(\Delta = \frac{\omega_2 - \omega_1}{\omega_0}\right)$

High-pass	Bandpass	Bandstop
$\frac{\circ}{\Box} \frac{1}{\omega_c L}$	$\frac{\sum_{k=1}^{\infty} \frac{L}{\omega_0 \Delta}}{\sum_{k=1}^{\infty} \frac{\Delta}{\omega_0 L}}$	$\frac{L\Delta}{\omega_0} \left\{ \frac{1}{\omega_0 L\Delta} \right\}$
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$\left\{ \frac{1}{\omega_c C} \right\}$	$\frac{\Delta}{\omega_0 C} \left\{ \frac{1}{\omega_0 \Delta} \right\}$	$ \frac{\sum_{\alpha=0}^{\infty} \frac{1}{\omega_0 C \Delta}}{\sum_{\alpha=0}^{\infty} \frac{C \Delta}{\omega_0}} $
	$\frac{\bigcap_{k=1}^{\infty} \frac{1}{\omega_c L}}{\bigcap_{k=1}^{\infty} \frac{1}{\omega_c L}}$	$ \frac{1}{\Box} \frac{1}{\omega_c L} \qquad \frac{\sum_{\omega_0 \Delta}}{\sum_{\omega_0 L}} \frac{1}{\omega_0 L} $