

$$12b) \quad \underline{T_{HP}} = \frac{1}{\left(1 + \frac{R}{Z_{HP}}\right)} \cdot \frac{1}{1 + j \frac{RC\omega}{\left(1 + \frac{R}{Z_{HP}}\right)}} = \frac{\underline{Z_{HP}}}{\left(\underline{Z_{HP}} + R\right)} \cdot \frac{1}{1 + j \frac{2\pi R Z_{HP} C}{\left(R + \underline{Z_{HP}}\right)} \cdot f}$$

$\downarrow = T_1$
 $\downarrow = 1/f_{HP}$