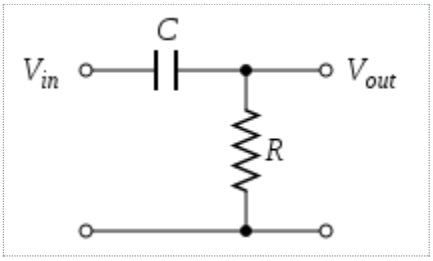
Answer on question #85268, Engineering Electrical Engineering

Design and draw π- type high pass filter having cut of frequency of 2kHz and load resistance of 500Ω.

Solution



$$\mathrm{C} = \frac{1}{2 \cdot \pi \cdot f \cdot R} = \frac{1}{2 \cdot 3.14 \cdot 2000 \cdot 500} = 0.1592 \cdot 10^{-6}\ F$$

$R = 500\ Ohm$

$f = 2000\ Hz$