

26 A transformer has 500 primary turns and 10 secondary turns. A resistor of $15\ \Omega$ is connected in the secondary coil.

If the root-mean-square voltage across the primary coil is 120 V, what is the root-mean-square current in the primary coil?

A 0.0032 A

B 0.16 A

C 2.4 A

D 8.0 A

27 Which of the following devices converts electrical energy into thermal energy?