

28 An electron has a velocity of magnitude 500 m s^{-1} , accurate to within 0.010 %. Within what lower limit could we determine the position of it along the direction of the velocity?

A $1.5 \times 10^{-6} \text{ m}$

B $1.5 \times 10^{-4} \text{ m}$

C 0.015 m

D 1.5 m