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In a single-slit diffraction experiment, a laser with a wavelength of 600 nm is aimed at a slit of width 0.20 mm and the resulting diffraction pattern is observed on a screen 2.0 m away.

What is the width of the central maximum of the diffraction pattern?

A

0.0030 mm

B

0.0060 mm

C

6.0 mm

D

12 mm