

$$\vec{B} = [B_1 \sin(kz - \omega t)] (\hat{i} + \hat{j})$$

$$\lambda = 430 \times 10^{-9} \text{ m}$$

$$B_1 = 7.8 \times 10^{-6} \text{ T}$$

$$k = \frac{2\pi}{\lambda} = \frac{2\pi}{430 \times 10^{-9}}$$

$$\sin(kz - \omega t) = 1 \Rightarrow \sin(kz) = 1 \Rightarrow kz = \frac{\pi}{2}$$

$$z = \frac{\pi}{2k}$$

$$E_{\text{max}} = B_{\text{max}} c$$

$$B_{\text{max}} = \sqrt{B_y^2 + B_x^2}$$

$$\sqrt{2 B_1^2} = \sqrt{2} B_1$$

$$E_{\text{max}} = (B_{\text{max}})(3 \times 10^8)$$



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