

85. Eq. 34-5 gives $B = E/c$, which relates the field values at any instant – and so relates rms values to rms values, and amplitude values to amplitude values, as the case may be. Thus, the rms value of the magnetic field is $0.2/3 \times 10^8 = 6.7 \times 10^{-10}$ T, which (upon multiplication by $\sqrt{2}$) yields an amplitude value of magnetic field equal to 9.4×10^{-10} T.