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Constant	Theoretical	Experimental
Permittivity ( $\frac{C^2 \cdot s^2}{kg \cdot m^3}$ )	$8.85 \cdot 10^{-12}$	$6.32 \cdot 10^{-12}$
Permeability ( $\frac{N}{A^2}$ )	$1.26 \cdot 10^{-6}$	$1.21 \cdot 10^{-6}$
Speed of light ( $\frac{m}{s}$ )	$3 \cdot 10^8$	$3.62 \cdot 10^8$

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We had a 20% error for our experimental result.