

<b>BASIS FOR COMPARISON</b>	<b>PERMITTIVITY</b>	<b>PERMEABILITY</b>
<b>DEFINITION</b>	The Permittivity measures the resistance offer by the material in the formation of an electric field.	The permeability measures the ability of the material to allow the magnetic lines of force to pass through it.
<b>SYMBOL</b>	$\epsilon$	$\mu$
<b>FORMULA</b>	Ratio of displacement field strength to the electric field strength.	Ratio of magnetic field density and magnetic field strength.
<b>SI UNIT</b>	Faraday/meter	Henry/meter
<b>PHYSICAL BASIS</b>	Polarization	Magnetization
<b>FREE SPACE</b>	The permittivity of the free space is 8.85 F/m.	The permeability of the free space is 1.26 H/m.
<b>FIELD</b>	Electric Field	Magnetic Field
<b>USED IN</b>	Capacitor	Inductor and Transformer core