

# electric permittivity and capacitors

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- *From:* boson boss <[junkerade@xxxxxxxxx](mailto:junkerade@xxxxxxxxx)>
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I asked myself do I really understand why capacitors have greater capacity with greater dielectrics.

<http://en.wikipedia.org/wiki/Permittivity>

It appears to be simple: well polarized and arranged medium serves as a transmission line from plate to plate. Also the field E is smaller in the material with all the  $+-+-+-$  sums leading to zero.... so this fits into energy going down inside capacitor with a great dielectric.