

Exam Winter Semester 2022

Student Group

First Name	Surname	Matrikel Nr.

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The resistance of the dielectric material of a film capacitor has to be calculated. The given film capacitor has an internal surface of $A=100 \text{ cm}^2$ and $d=0.8 \text{ μm}$. $\rho_{PP}(20 \text{ °C})=10^{17} \text{ Ωm}$. $\alpha=-0.048 \text{ 1/K}$, $\beta=+0.00057 \text{ 1/K}^2$.
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