task_uzbbnoz8abe6201d_with_calculation

Student Group

First Name	Surname	Matrikel Nr.

Table of Contents

exam ee1 SS2023

Exercise E5 Impedances at Frequencies
(written test, approx. 14 % of a 60-minute written test, SS2023)

[illegible] $\rm V$ [illegible] the
Result
[illegible] capacitor with $C_3 = 5.6 ~\rm nF$.
1. An inductor with $X_{L1} = 60 ~\rm m\Omega$ and $L_1 = 15.9 ~\rm \mu H$.

Solution
Solution

\begin{align*} f_ [illegible] \end{align*}
kHz}\end{align*}

\begin{align*} X_{C2} [illegible]
[illegible]
[illegible]
[illegible] {{Vs}\over{A}}}} \\ \end{align*}
\cdot A/Vs}} } \\ \end{align*}