

Impedanz-/Phasenverlauf

Membran: $t_{\text{Si}} = 20 \mu\text{m}$, $t_{\text{ZnO}} = 5 \mu\text{m}$

Abm.: $9,2 \times 9,2 \text{ mm}^2$

$U = 1 \text{ V}$, $Q = 100$

FE-Modell 1: $f_s \approx 3036 \text{ Hz}$, $Z(f_s) = 109 \text{ k}\Omega$

$f_p \approx 3104 \text{ Hz}$, $Z(f_p) = 282 \text{ k}\Omega$

$\Rightarrow k_{\text{eff}} = 0,21$ $A_m = 11 \mu\text{m}$

