



$$U_{peak} - U_F - U_{C1} = 0$$

$$U_{C1} = U_{peak} - U_F$$

\* Note: Capacitor  $C_1$  has been charged with  $U_{C1}$  in previous step!

$$U_{peak} + U_{C1} - U_F - U_{C2} = 0 \quad \left| \begin{array}{l} U_{C2} = U_{meas} \\ U_{C1} = U_{peak} - U_F \end{array} \right.$$

$$U_{peak} + U_{peak} - U_F - U_F - U_{meas} = 0$$

$$U_{meas} = 2 \cdot (U_{peak} - U_F)$$

MF Probe based on full wave rectification - Principle