RLC CIRCUIT DATA SHEET

frequency f [Hz]	resultant voltage U_{LRC} [ ]	current I [ ]	capacitor voltage U_C [ ]	inductor voltage U_{LR} [ ]
400				
600				
700				
750				
800				
850				
900				
950				
980				
1000				
1020				
1050				
1100				
1150				
1200				
1250				
1300				
1350				
1400				
1500				
2000				

Evaluation

f [Hz]	U_{LR} [ ]	U_C [ ]	$U_{LR} + U_C$ [ ]	U_{LRC} [ ]
800				
1000				
1200				

The capacitance C: frequency chosen for the calculation: f =

$$\frac{U_C}{I} = Z_C = \frac{1}{2\pi f C} \quad \rightarrow \quad C =$$

The inductivity L: frequency chosen for the calculation: f =

$$\frac{U_{LR}}{I} = Z_{LR} \approx 2\pi f L \quad \rightarrow \quad L =$$

The resonant frequency from the graph I *vs.* f: f_0 =

The resonant frequency from the Thomson formula: $f_0 = \frac{1}{2\pi} \cdot \frac{1}{\sqrt{LC}} =$