**2.3.2**

**1)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Nominalwert** | 470 Ohm | 1000 Ohm | Spule |
| **Tatsächlicher Messwert** | 0,4746Ohm | 0,979kOhm | 0,81 Ohm |

**3) c)**

|  |  |
| --- | --- |
| **Widerstand Messschaltung**  [Ohm] | 0,84 |

**3) i)**

Jeweils 2.96 Volt

**Tabelle 2.7**

|  |  |  |  |
| --- | --- | --- | --- |
| **Dateiname** | **V2\_S\_1** | **V2\_S\_2** | **V2\_S\_3** |
| **Frequenz [Hz]** | 1000 | 3350 | 10000 |
| Eingangsamplitude [V] | 3.0751 | 3.0622 | 3.0275 |
| Ausgangsamplitude [V] | 0.098468 | 1.5965 | 0.11236 |
| Amplitudenverhältnis [-] (Ausgang/Eingang) |  |  |  |
| Periodendauer T [s] | 10^-3 | 10.6\*10^-5 | 10^-4 |
| zeitliche Verschiebung ∆T [s] | (1-0.77)\*10^-3 | 0 | 0.24\*10^-4 |
| Winkelverschiebung ∆ϕ [°] |  | 0 |  |

**Tabelle 2.8**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Anstieg | stat. Endwert Ausgang | 63%- Wert | Zeitkonstante T | Kapazität C |
| [- ] | [V] | [V] | [s] | [µF] |
| 1 | 6.142 | 3.86946 | 0.001 | 1\*10^-6 |
| 2 | 6.141 | 3.86883 | 0.001 | 1\*10^-6 |
| 3 | 6.141 | 3.86883 | 0.001 | 1\*10^-6 |
| Mittelwert | - | - | - | 1\*10^-6 |