For 10Khz Frequency, 1kΩ Resistance, 10mH Inductance, 10 nF Capacitance

TABLE:1

|  |  |  |  |
| --- | --- | --- | --- |
|  | Theoretical | Experimental | %Deviation |
| XC | 1591.55 | 1564.62 | 1.69% |
| XL | 628.32 | 680.27 | 7.64% |
| Z | 1388.46 | 1334.61 | 3.88% |
| ϴ | -43.9 | -41.48 | 5.51% |

Ip-p = 1.4mA

TABLE:2

|  |  |  |  |
| --- | --- | --- | --- |
|  | Theoretical | Experimental | %Deviation |
| VC | 2.29 V | 2.3 V | 0.43% |
| VL | 0.9 V | 1 V | 10% |
| VR | 1.4 V | 1.45 V | 3.45% |
| VS | 2 V | 2 V | 0% |
| ϴV | -43.95 | -42.5 | 3.2% |