



Part V: Conclusion

According to the dielectric constant ($Dk=2.941225$) which was measured in the Part IV and the dielectric constant ($Dk=3@1\text{Mhz}$) which was indicated in the Panlite LN-1250G datasheet [4]. The experimental result matched the data from datasheet. Therefore, plastic dielectric constant can be accurately measured using TDR and Copper Foil Tape.

Part VI: References

- [1] Neil (Bing) Hao. Time-domain reflectometer (TDR) theory and implementation. Retrieved Dec 03, 2019, from <http://uniteng.com/wp-content/uploads/2019/11/Time-domain-reflectometer-TDR-theory-and-implementation-Neil-Hao.pdf>
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- [3] Dielectric Constant Values of Several Plastics. Retrieved Dec 03, 2019, from <https://omnexus.specialchem.com/polymer-properties/properties/dielectric-constant>
- [4] Teijin Chemicals Ltd. Panlite LN-1250G. Retrieved Dec 03, 2019, from <http://www.fredixinternational.com/wp-content/uploads/2016/02/PC-LN-1250G.pdf>