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Alcatel-Lucent LTE 700MHz C Block TRDU
2x40W
Model KS24817L1

December 2013

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EXHIBITS

EXECUTIVE SUMMARY

This report is a design "teardown" analysis of an Alcatel-Lucent 700MHz (746-756MHz) transceiver duplexer unit (TRDU). The analysis covers the entire system including the power supply, transmit, receive and duplexer filter functions. A simplified mechanical analysis of the unit along with detailed bill of materials analysis is presented in this report. The FCC ID is AS5BBTRX-01 and the product name is 700TRDU. The Alcatel-Lucent P/N is KS24817L1 1:1.

Active/Passive Component Summary

Total Weight:	16.7 kg
Total Active/Passive Components:	3,496
Total Active Components:	299
Total Passive Components:	3,197
Total Other Components:	187

Important Note:

This particular unit was built in Q2 2009, given the date codes present on many of the semiconductor integrated circuits contained within the unit as well as on the front panel of the unit. As such, some or many of the components, both active and passive, have been updated or replaced by more recent part numbers. The majority of the components contained within the bill of materials analysis are not RoHS compliant. We believe that the overall system and functionality presented has not changed dramatically compared to the latest version of this unit.

Where possible, all components, both passive and active, have been identified with the manufacturer's part number within the bill of materials analysis.

This analysis does not include any pricing information or estimated costs on the mechanical design or for any passive or active components contained within the system.

All dimensions, unless otherwise specifically stated, are in metric format.

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