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Life Test Data – High Voltage Chip Resistors

This application note reports the results of a 2000 hour load life test performed per MIL-PRF-55342G/4.8.11.1. The specific resistors reported on here include:

- HVC1210K7007GB a 1210 7GΩ high voltage chip resistor
- HVC1206K1006FB a 1206 100MΩ high voltage chip resistor
- HVC2010K1007FB a 2010 1GΩ high voltage chip resistor
- HVC2512L1007JB a 2512 1GΩ high voltage chip resistor

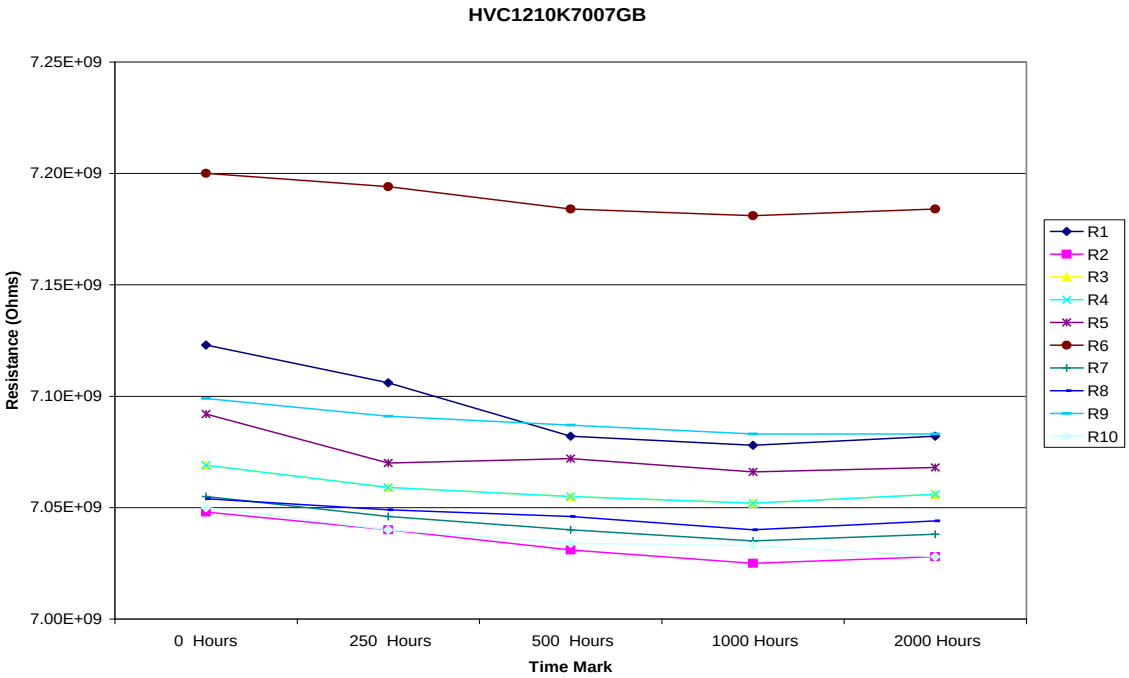
The test voltages used for these tests:

- 1210 and 1206 case size: 1000 VDC
- 2512 and 2510 case size: 2000 VDC

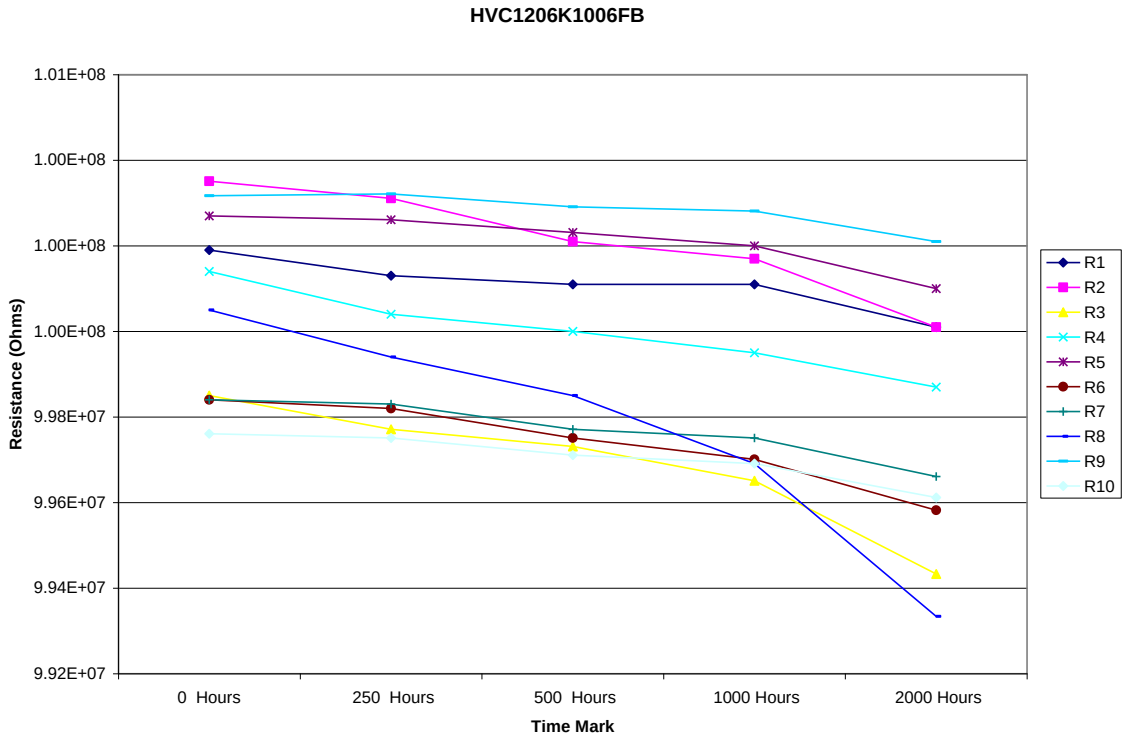
Test Results – Average Value Change

- HVC1210K7007GB – 0.28%
- HVC1206K1006FB – 0.28%
- HVC2010K1007FB – 0.23%
- HVC2512L1007JB – 0.34%

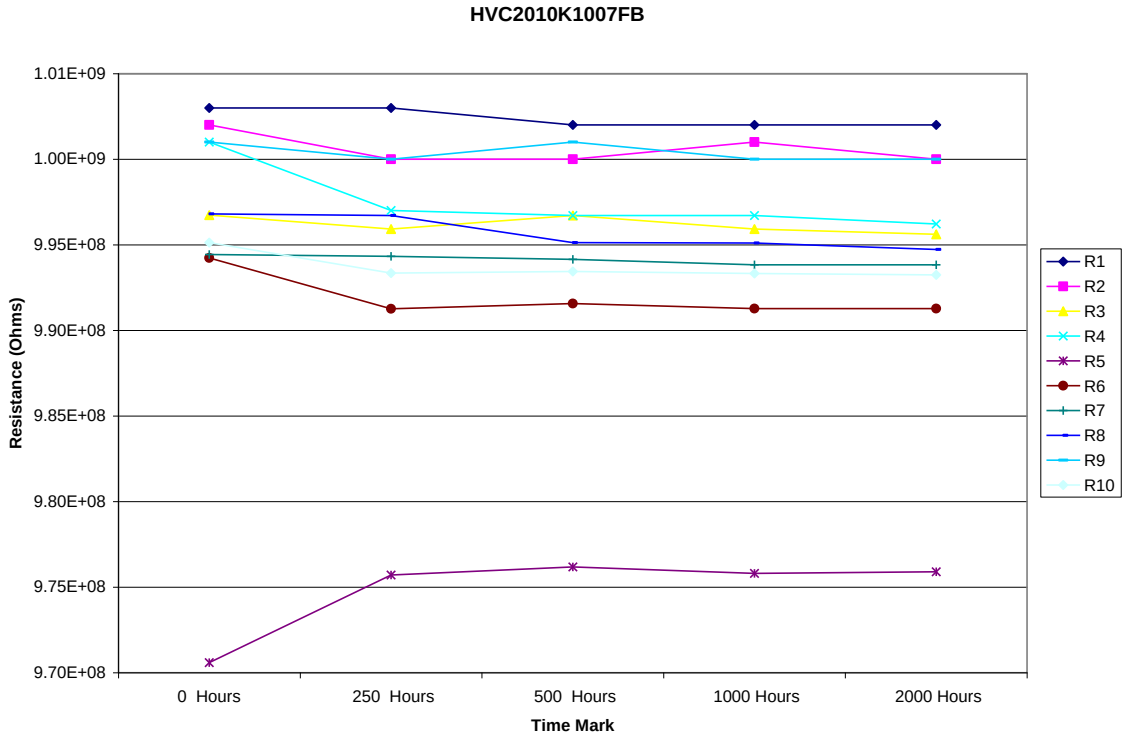
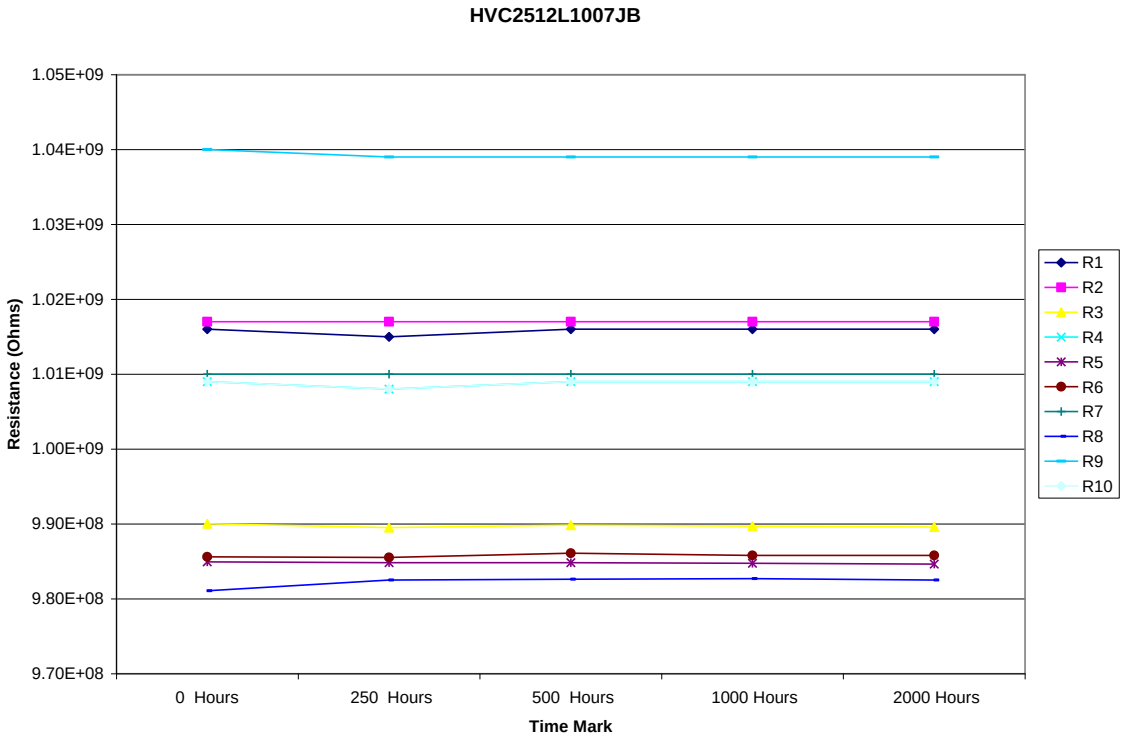
Specific data for HVC1210K7007GB 10 resistor were evaluated



Specific data for HVC1206K1006FB 10 resistor were evaluated



Specific data for HVC2010K1007FB 10 resistor were evaluated



Specific data for HVC2512L1007JB 10 resistor were evaluated