

# INITIAL EMP TESTING OF MULPIN PCB's

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## **Mulpin vs Tesla Coil Test (October 29<sup>th</sup> 2011)**

The test was conducted at Bunbury, Western Australia on the 29<sup>th</sup> October 2011

## **Mulpin vs Microwave Test (October 30<sup>th</sup> 2011)**

The test was conducted at Donnybrook, Western Australia on the 30<sup>th</sup> October 2011

### **Tesla Coil:**

Each PCB was placed into a radio to confirm they both worked successfully prior to the testing. Each board individually was exposed to the Tesla Coil which produced approximately 1 million volts as detailed in the tests shown below.

The aim of the experiments was to find out how well a Mulpin PCB and a similar partially Mulpinised PCB could resist the influences of Radio frequency interference and EMP. Firstly the Mulpin prototype was subjected to the very high voltage sparks of a Tesla coil. Following this, the partially Mulpinised PCB was tested in the same way. This was the 1<sup>st</sup> test performed by Mulpin Research Laboratories using a Tesla Coil against both a fully, and a partially Mulpinised PCB.

After the Tesla Coil test, each board was placed back into the radio and both PCB's worked successfully.

These tests proved undoubtable that the Mulpin Technology was successful.

### **Microwave:** (Test performed at Mulpin Research Laboratories)

This was the 1<sup>st</sup> test performed by Mulpin Research Laboratories using an 800 watt Microwave oven. The same two boards were used in the Microwave oven as were used for the Tesla Coil test on the 29<sup>th</sup> October.

Each PCB was placed in the Microwave one at a time in the presence of ½ glass of water. The water was present to ensure that reflected microwave energy would not return to and damage the microwave generating magnetron.

**Partial Mulpinised PCB:** The partially Mulpinised PCB was tested first for a period of 9 seconds. The experiment was stopped when the PCB burst into flames. It was then cleaned and then connected to the test radio and found that it did not function.

**Fully Mulpinised PCB:** The fully Mulpinised PCB was the second board tested for a period of 15 seconds. The experiment was then stopped. No visual damage was apparent. It was then connected to the test radio and found that it functioned perfectly.

### **Next test:**

The next test will be between a Fully Mulpinised PCB and a conventional PCB from a radio off the shelf. The intention is to expose both PCB's to the Tesla Coil and Microwave units. Please send an email to [info@mulpin.com](mailto:info@mulpin.com) for more information about these tests or for help with any other Mulpin enquiry.

## PHOTOGRAPHS



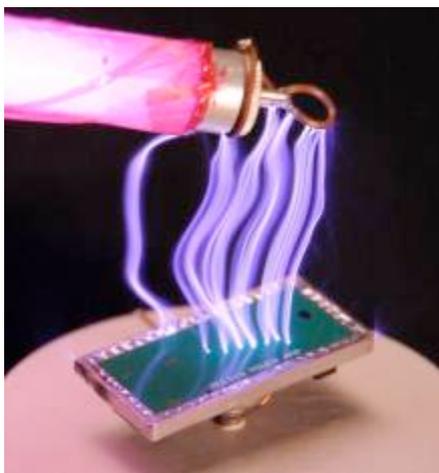
**Picture 1.** Shows Mulpin PCB being subjected to the high voltage of the Tesla Coil. Note the spark jumping to ground just under the stand holding the PCB. The spark to ground is about 2 metres long.



**Picture 2** shows Tesla coil alongside the Lead Inventor for scale. He is 1.85 M tall.



**Picture 3.** Shows Mulpin PCB being subject to further testing. The Tesla Coil used for testing can be seen on the right.



**Picture 4.** Shows close up testing with a miniature Tesla coil.



Tesla Coils and Photographs courtesy of Peter Terren of Bunbury, Western Australia. [www.tesladownder.com](http://www.tesladownder.com)