

RF TEC Mfg., Inc.

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Dear Valued Customers,

The HIGH POWER TEST DATA of In-Line Surge Protectors of RF TEC Mfg., Inc.

Our test data is from actual test of our complete surge protectors and not by Gas Tube Element Only. Our data shows total performance. So, you can rely how our surge protectors work well.

The test was made with our two basic types. One is Square Body type that is precision screw machined Brass Body High Grade High Performance type. There are BNC/TNC Connector types for DC~4 GHz and N for DC~6 GHz. We tested DC600V type, part number RTM-LSP559-600.

Another type is Black Colored Aluminum Body with precision screw machined connectors that are low cost but high performance. There are SO239/PL259 for DC~1.5 GHz and N for DC~3 GHz. We tested N Female-N Female 600V, part number RTM-LSP355-600.

HIGH POWER TEST was made with 2KV, 10KV and -10KV at 1.5/50 usec and 5KA at 8/20 usec. Provided high power energy that will be added to the Surge Protector. Add and increase DC Voltage of 100V/sec and observe voltage of discharge. Add and increase Impulse Voltage of 1KV/us and observe voltage of discharge.

As you see the test data, almost all energy were discharged. The only very few spike in-rush voltage has observed as residual voltage. The widths of residual voltages are 2 usec(micro second) at 8/20usec test, and 0.1 usec at 1.5/50 usec test. Observed residual 1,000V at 8/20 usec test that is (1,000V x 0.000002 sec) 0.002V/sec only. Residual voltage 2,000V at 1.5/50 usec 10KV test that is (2,000V x 0.0000001 sec) 0.0002V/sec. Only 0.002V/sec at 8/20 usec or 0.0002V/sec at 1.5/50 usec are residual even inductive lightning of 10KV 5KA has stroke.

We have tested DC600V Gas Tube inside complete In-Line Surge Protectors. We have 90V, 230V and 350 too. The performance is same but activate faster at lower voltage.

The other connectors versions are also have same characteristic and performance.

Please also refer to the performance data of High Frequency shown on the catalog that are also very good.

We also tested 10KA/500KV Spark Destroying Cycle Test at public lab of government, and passed test 80 times.

Best regards,
Engineering Department