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Specification Updated: 5/13/07

Tested Parameters for Shipped Product:

1. Electrical Open Test:
 - a. +7000V across tip to touch pad for 1.6ms; repeated 100 times at a frequency of 50Hz
 - b. -7000V across tip to touch pad for 1.6ms; repeated 100 times at a frequency of 50Hz
 - c. Check that potential has not electrically opened the circuit
2. Electrical Short Test:
 - a. Check that none of the circuit elements are electrically shorted; test is performed after the Electrical Open Test.
3. Electrical Drift Test:
 - a. Check that the integrity of circuit elements have not drifted by more than $\pm 3\%$ from initial characteristics; test is done after Electrical Open and Electrical Short Tests.
4. Electrical Integrity Test:
 - a. Tests that the electrical integrity of the circuit is tested at $\pm 7000V$ to be within 5% of the expected values (values are proprietary and confidential). Values are tested after Electrical Open Test, Electrical Short Test, and the Electrical Drift Test.

Characteristics:

	Minimum	Typical	Maximum	Unit
Designed Withstanding Potential:	$\pm 9,000$	$\pm 15,000$	$\pm 18,000$	V
Lifetime with 4mJ 9kV Shocks	50,000	500,000	-	Repetitions
Product Lifetime	2	5	12	Years
Withstanding Static Energy:	-	-	1.2	J
Spark Energy Reduction	92	97	99	%

Behavioral Considerations:

- Product deteriorates rapidly when used in temperatures over 110°C (230°F).
- Product deteriorates when left in water; ocean/sea/salt water greatly deteriorates performance.
- If a shock exceeds the withstanding potential, the withstanding potential deteriorates; however StopShox™ does not become useless until the “Withstanding Static Energy” specification is also exceeded.
- StopShox™ does not eliminate the spark; it reduces the spark energy, see Spark Energy Reduction value.

For the most current specification see: www.stopshox.com/specs.htm