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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 ±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 ±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:	*±9,000*	*±15,000*	*±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.