
Energy Harvester

SPGA Series

Test documentation

1. Input data

(1) Standard use case

- Output electric power of 170 μ J min.

(2) Type and amount of ambient energy

- Type : Kinetic energy
- Amount : 7.5 N x 3.3 mm

2. Test execution

1. Insert the switch into a operating machine
2. Presse the switch at the velocity of 20 mm/sec with operating unit
3. Measure the generated power

3. Test documentation

(1) Requested type and amount of ambient energy

- Type : Kinetic energy
- Amount : 7.5 N x 3.3 mm

(2) Standard use case executed by the device during test

- Output electric power of 170 μ J min.

Energy Harvester

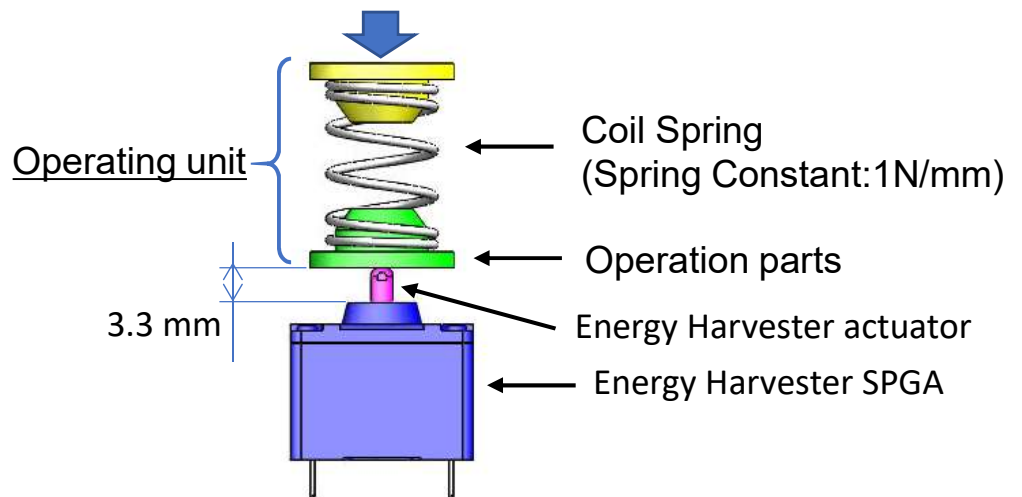
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(3) Test approach

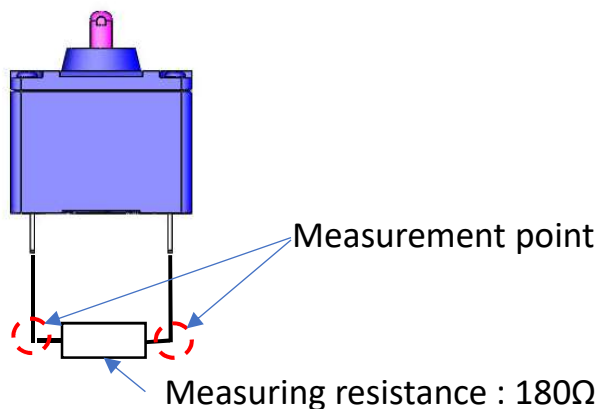
Operating condition

- Actuator shall be pressed by operating unit as bellow construction.
- Operation velocity : 20mm/sec.
- Actuator shall be pressed straight.
- Operation parts shall be flat shape.



Measurement method

- Generated energy shall be measured as bellow condition.



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(4) Test result

- Sample : 5 pcs
- Result : Pass

No.	Generated power amount [μ J]		Judgement
	Press	Release	
1	342.7	363.8	Pass
2	356.6	388.3	Pass
3	347.5	371.2	Pass
4	374.7	334.6	Pass
5	341.4	382.0	Pass