



TEST REPORT

Applicant : SPECTOR & CO
Address : 5700 KIERAN ROAD, ST. LAURENT, QUEBEC, Canada H4S 2B5
Report No : 140923042SZN-002 **Issue Date** : Nov. 28, 2014

Sample Description

Type of Product : Bluetooth speaker
Brand : /
Model No. of Product : T230
Date of Received : Sep. 24, 2014
Date of test Conducted : Nov. 3, 2014 – Nov. 7, 2014

Test

Test Method : UL/CSA 60065 Clause 14.10.4, Clause 14.10.5, Clause 11.2
Sample quantity : 2
Test Observation: : See pages 2-5 for details.
Remark : When determine the test result, measurement uncertainty has been considered.

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Tested By

Approved by:

Signed on file

Simon Sun
Project Engineer

Wisons Lin
Project Engineer

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Clause	Requirement + Test	Result - Remark	Verdict
11	Fault conditions		P
11.1	No shock hazard under fault condition		P
11.2	Heating under fault condition		P
	Flames extinguish within 10 seconds	No flame during testing	N/A
	No hazard from softening solder	No softening solder	N/A
	Soldered terminations not used as protective mechanism		P
11.2.1	Measurement of temperature rises	(see appended table 11.2)	P
11.2.2	Temperature rise of accessible parts	(see appended table 11.2)	P
11.2.3	Temperature rise of parts, other than windings and printed boards, providing electrical insulation	No such parts	N/A
11.2.4	Temperature rise of parts acting as a support or mechanical barrier	No such parts	N/A
11.2.5	Temperature rise of windings	(see appended table 11.2)	P
11.2.6	Temperature rise of printed boards shall not exceed the limits of table 3 by max. 100 K for max. 5 min	(see appended table 11.2)	P
	Printed circuit boards (PCB) classified as V-0 according to 60695-11-10 or Clause G.1 may exceed the limit in table 3 in case a) and b):		N/A
	a) Temperature rise of printed circuit boards exceeding the limits of table 3 by not more than 100 K for an area not greater than 2 cm ²		N/A
	b) Temperature rise of printed circuit boards exceeding the limits of table 3 up to 300 K for an area not greater than 2 cm ² for a maximum of 5 min		N/A
	Meets all the special conditions if conductors on printed circuit boards are interrupted		N/A
	Class I protective earthing maintained		N/A
11.2.7	Temperature rise of parts not subject to the limits of 11.2.1 to 11.2.6 shall not exceed the limits in table 3, item e), "Fault conditions".		N/A
14	Components		P
14.10.4	Battery mould stress relief		P
14.10.5	Battery drop test		P

Clause	Requirement + Test		Result - Remark	Verdict
11.2	TABLE: summary of fault condition tests			P
	Voltage (V) 0,9 or 1,1 times rated voltage		5V DC	—
	Frequency (Hz)		/	—
	Ambient temperature (°C)		24 °C – 35 °C	—
No.	Component	Fault	dT (K) / Component	Other results (include description and test duration)
1.	Battery output	SC	/	The apparatus was protected immediately and the input current dropped to 0A, no hazardous phenomena
2.	Speaker	SC	8/Battery surface 7/Internal enclosure surface(non-metallic) 12/PCB surface(near IC1) 12/PCB surface(near IC2) 20/PCB surface(near IC3) 13/PCB surface(near IC4) 7/PCB surface(near IC5) 13/PCB surface(near dimode) 7/External enclosure surface(non-metallic)	Un(V) = 5,5; Pn(W) = 2,6; In(mA) = 473 Result: No hazards.
3.	Battery	Overcharge	9/Battery surface 9/Internal enclosure surface(non-metallic) 14/PCB surface(near IC1) 11/PCB surface(near IC2) 25/PCB surface(near IC3) 15/PCB surface(near IC4) 8/PCB surface(near IC5) 15/PCB surface(near dimode) 8/External enclosure surface(non-metallic)	Un(V) = 5,5; Pn(W) = 2,67; In(mA) = 485 Result: No hazards. No temperature rise exceeding its limit occurred.
<p>Note:</p> <p>1. Max=max non-clipped or available output power, SC=short circuit, OL=over load, BL=block.</p>				

Clause	Requirement + Test	Result - Remark	Verdict
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Photo:

