

RELIABILITY TEST REPORT

Supplier : iSentek Inc

PRODUCT TYPE : IST8310 3-Axis Electronic Compass

TOTAL QUANTITY :462 pcs

TEST PURPOSE : Reliability Verification

RELIABILITY TEST DURATION : 2016/3/21~2016/7/7

TEST RESULT : PASS

REVIEWED BY : ***Myron Hsieh***

APPROVED BY : ***Kan Chang***

ISSUED DATE : ***2016/8/1***



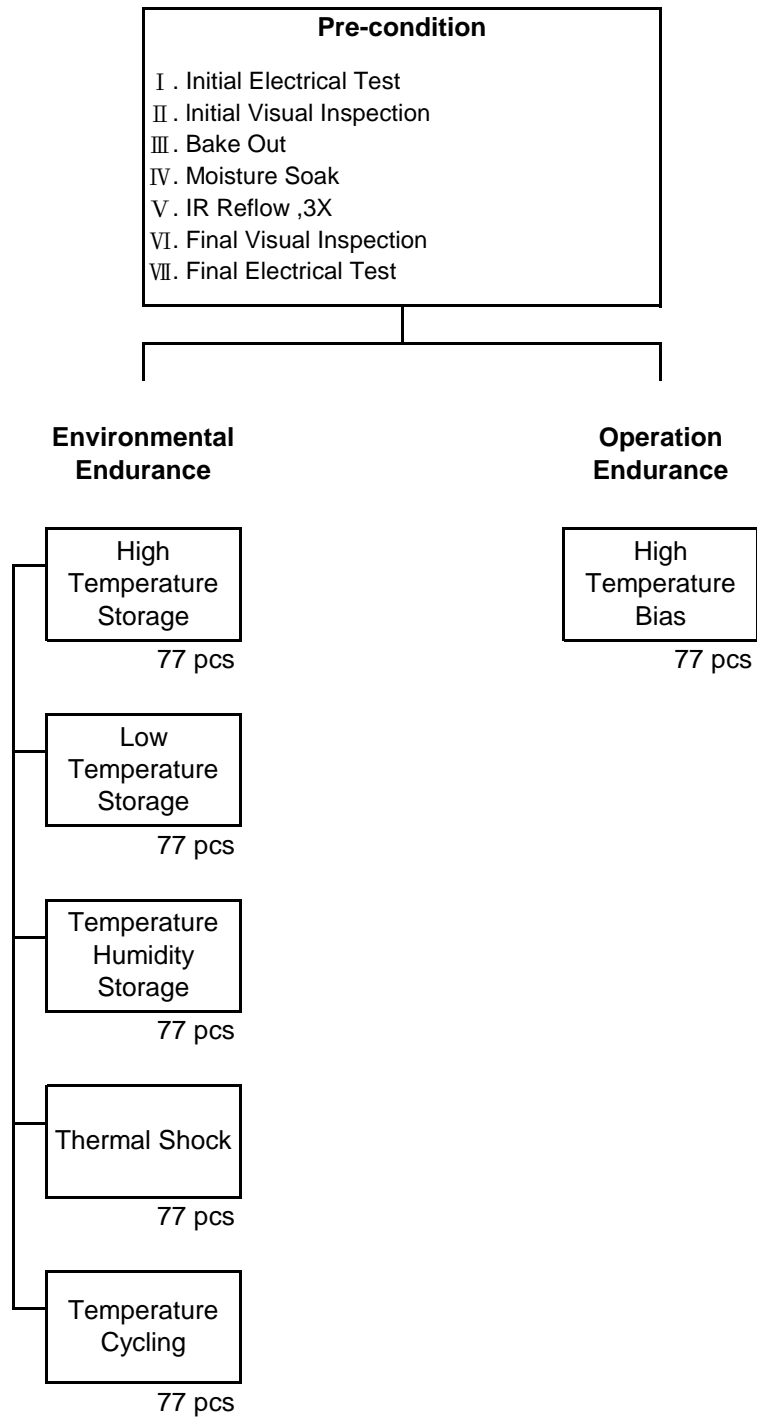
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MAGENTIC SENSOR RELIABILITY TEST RESULT

CONDITION TEST ITEM		REFERENCE	TEST CONDITION AND CRITERIA	CRITERIA	SAMPLE SIZE	START DATE	FINISH DATE	TEST RESULT
1	Pre-condition I . Initial Electrical Test II . Initial Visual Inspection III . Bake Out IV . Moisture Soak V . IR Reflow ,3X VI . Final Visual Inspection VII . Final Electrical Test	J-STD-020	I . Electrical data obtained before pre-condition II . 40X optical magnification III . 125°C, 24 hours IV . 30°C , RH 60%, 192 hours (Level 3) V . Peak temperature 260°C, 3 times VI . 40X optical magnification VII . Electrical data obtained after pre-condition	F/T ACC:0 ; REJ:1	462	2016/3/21	2016/3/29	PASS
2	High Temperature Storage	JEDEC JESD22-A103	200°C for 72 hours	F/T ACC:0 ; REJ:1	77	2016/4/19	2016/4/22	PASS
3	Low Temperature Storage	MIL-STD-883 Method 1013	-40°C for 1000 hours	F/T ACC:0 ; REJ:1	77	2016/4/19	2016/6/29	PASS
4	Temperature Humidity Storage	EIAJ ED-4701/100	85°C, RH 85% for 1000 hours	F/T ACC:0 ; REJ:1	77	2016/4/19	2016/6/29	PASS
5	Thermal Shock	MIL-STD-883 Method 1019	-55°C~125°C, dwell Time: 5min, 200cycles	F/T ACC:0 ; REJ:1	77	2016/4/19	2016/4/26	PASS
6	Temperature Cycling	MIL-STD-883 Method 1010	-65°C~150°C, 2 cycles/hours, 500cycles	F/T ACC:0 ; REJ:1	77	2016/4/19	2016/5/24	PASS
7	High Temperature Bias	JEDEC JESD22-A108	125°C, 1000 hours, Vcc max input by spec.	F/T ACC:0 ; REJ:1	77	2016/3/30	2016/6/9	PASS

MAGENTIC SENSOR RELIABILITY TEST FLOW CHART

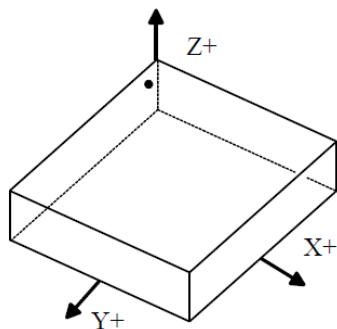


GENERAL SPECIFICATIONS

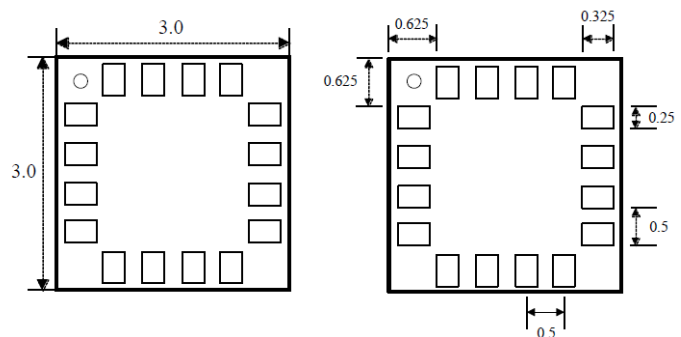
(1) Holder Type	3-Axis Electronic Compass
(2) Product Size	3.0 × 3.0 × 1.0 mm
(3) Supply Voltage	-0.5 V ~ 3.6 V
(4) Output Data Rate (ODR)	Max. 200Hz
(5) Sensitivity	Typ.330 LSB
(6) Operating Temperature Range	-40 °C ~ 85 °C

Dimensions:

IST8310 3D Top View



IST8310 LGA Top View (Looking Through)



IST8310 LGA Side View

