TAI-TECH Advanced Electronics Co., Ltd.

TAI-TECH

西北臺慶科技股份有限公司

Reliability Test Report

Test Part：TMPC1004H-100MG-D

APPROVED： 鍾百烜　　CHECKED：張榮泉　　DRAWN：陳勇昇

Report finishes day：2013/12/20

TMPC1004H-100MG-D Reliability Testing

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Life Test

CONDITION：

Temperature： 125±2℃

Applied current：rated current

Duration：1000±12hrs

Measured at room temperature after placing for 24±2 hrs

Equipment：高新 TH-1S-C、RF LCR METER；Test the quantity：48pcs

REQUIREMENT:

a. Appearance : Cracking , chipping and any other defects harmful to the characteristics should not be allowed。

b. Inductance: Within ±10% of initial value。

RDC：within ±15% of initial value and shall not exceed the specification value

NO.	Before		After		Change Rate, %		Appearance	NO.	Before		After		Change Rate, %		Appearance
	LS	RDC	LS	RDC	LS	RDC			LS	RDC	LS	RDC	LS	RDC	
1	10.19	0.022	10.20	0.021	0.1	-3.2	PASS	25	9.95	0.021	9.75	0.021	-2.0	0.0	PASS
2	9.84	0.022	10.04	0.022	2.0	0.0	PASS	26	9.90	0.022	9.89	0.022	-0.1	0.0	PASS
3	10.08	0.022	10.24	0.022	1.6	0.0	PASS	27	10.24	0.021	10.09	0.021	-1.5	0.0	PASS
4	9.80	0.021	9.76	0.021	-0.4	0.0	PASS	28	9.87	0.022	9.88	0.022	0.1	0.0	PASS
5	10.15	0.021	10.06	0.021	-0.9	0.0	PASS	29	9.85	0.022	9.90	0.021	0.5	-3.2	PASS
6	9.94	0.021	10.03	0.021	0.9	0.0	PASS	30	10.25	0.021	9.88	0.022	-3.6	3.3	PASS
7	9.87	0.022	9.98	0.021	1.1	-3.2	PASS	31	10.23	0.021	10.08	0.021	-1.5	0.0	PASS
8	10.01	0.022	10.11	0.022	1.0	0.0	PASS	32	9.84	0.021	10.12	0.021	2.8	0.0	PASS
9	9.98	0.021	9.81	0.021	-1.7	0.0	PASS	33	10.21	0.021	9.81	0.021	-3.9	0.0	PASS
10	10.09	0.022	10.10	0.021	0.1	-3.2	PASS	34	10.12	0.021	10.22	0.021	1.0	0.0	PASS
11	9.88	0.022	9.80	0.022	-0.8	0.0	PASS	35	9.99	0.021	10.03	0.021	0.4	0.0	PASS
12	9.90	0.022	10.14	0.021	2.4	-3.2	PASS	36	10.16	0.022	10.15	0.022	-0.1	0.0	PASS
13	9.80	0.022	9.86	0.021	0.6	-3.2	PASS	37	10.02	0.021	9.89	0.021	-1.3	0.0	PASS
14	10.13	0.022	10.23	0.022	1.0	0.0	PASS	38	9.96	0.022	10.24	0.021	2.8	-3.2	PASS
15	9.91	0.022	9.76	0.021	-1.5	-3.2	PASS	39	10.15	0.021	9.98	0.022	-1.7	3.3	PASS
16	9.99	0.022	9.80	0.022	-1.9	0.0	PASS	40	9.79	0.022	10.10	0.021	3.2	-3.2	PASS
17	10.12	0.022	10.05	0.022	-0.7	0.0	PASS	41	10.08	0.022	9.93	0.021	-1.5	-3.2	PASS
18	10.12	0.022	9.94	0.021	-1.8	-3.2	PASS	42	9.99	0.022	10.07	0.022	0.8	0.0	PASS
19	10.16	0.022	9.84	0.021	-3.1	-3.2	PASS	43	10.13	0.022	9.78	0.022	-3.5	0.0	PASS
20	9.94	0.021	9.81	0.021	-1.3	0.0	PASS	44	10.24	0.021	10.11	0.021	-1.3	0.0	PASS
21	10.06	0.021	10.10	0.022	0.4	3.3	PASS	45	10.22	0.022	10.05	0.021	-1.7	-3.2	PASS
22	10.00	0.021	10.19	0.021	1.9	0.0	PASS	46	9.80	0.021	9.98	0.021	1.8	0.0	PASS
23	10.01	0.022	10.16	0.021	1.5	-3.2	PASS	47	10.02	0.022	10.15	0.022	1.3	0.0	PASS
24	9.93	0.021	10.12	0.021	1.9	0.0	PASS	48	10.13	0.022	10.04	0.021	-0.9	-3.2	PASS
AVG	10.02	0.021	10.01	0.021	-0.15	-0.8	PASS	R	0.46	0.00	0.49	0.00	-	-	-
MAX	10.25	0.022	10.24	0.022	3.2	3.3	PASS	Σ	0.14	0.00	0.15	0.00	-	-	-
MIN	9.79	0.021	9.75	0.021	-3.9	-3.2	PASS								

Test judging：PASS

Load Humidity

CONDITION：

Humidity：85±2% R.H,

Temperature：85℃±2℃

Duration：1000hrs Min. with 100% rated current

Measured at room temperature after placing for 24±2 hrs

Equipment：高新 TH-1S-C、RF LCR METER；Test the quantity：48pcs

REQUIREMENT:

a. Appearance : Cracking , chipping and any other defects harmful to the characteristics should not be allowed。

b. Inductance: Within ±10% of initial value。

RDC：within ±15% of initial value and shall not exceed the specification value

NO.	Before		After		Change Rate, %		Appearance	NO.	Before		After		Change Rate, %		Appearance
	LS	RDC	LS	RDC	LS	RDC			LS	RDC	LS	RDC	LS	RDC	
1	10.24	0.021	9.80	0.021	-4.3	0.0	PASS	25	10.09	0.022	9.99	0.021	-1.0	-3.2	PASS
2	9.92	0.022	9.93	0.022	0.1	0.0	PASS	26	9.90	0.021	10.08	0.022	1.8	3.3	PASS
3	10.05	0.022	10.21	0.022	1.6	0.0	PASS	27	9.95	0.022	10.14	0.022	1.9	0.0	PASS
4	10.16	0.021	10.07	0.021	-0.9	0.0	PASS	28	9.95	0.022	9.97	0.022	0.2	0.0	PASS
5	9.90	0.021	9.75	0.021	-1.5	0.0	PASS	29	10.03	0.022	9.94	0.021	-0.9	-3.2	PASS
6	10.24	0.021	10.06	0.021	-1.8	0.0	PASS	30	9.95	0.022	10.08	0.022	1.3	0.0	PASS
7	9.82	0.022	10.14	0.021	3.3	-3.2	PASS	31	9.95	0.021	9.97	0.022	0.2	3.3	PASS
8	10.04	0.022	10.05	0.021	0.1	-3.2	PASS	32	9.80	0.022	10.18	0.022	3.9	0.0	PASS
9	10.22	0.021	10.20	0.021	-0.2	0.0	PASS	33	9.97	0.021	9.76	0.022	-2.1	3.3	PASS
10	10.21	0.022	9.94	0.021	-2.6	-3.2	PASS	34	10.20	0.021	10.02	0.022	-1.8	3.3	PASS
11	9.78	0.022	10.17	0.021	4.0	-3.2	PASS	35	10.00	0.021	9.91	0.021	-0.9	0.0	PASS
12	10.20	0.022	9.85	0.022	-3.4	0.0	PASS	36	10.19	0.022	9.84	0.021	-3.4	-3.2	PASS
13	9.95	0.021	10.22	0.021	2.7	0.0	PASS	37	10.07	0.021	10.13	0.021	0.6	0.0	PASS
14	10.06	0.021	9.95	0.022	-1.1	3.3	PASS	38	10.09	0.022	9.92	0.021	-1.7	-3.2	PASS
15	9.76	0.021	10.07	0.022	3.2	3.3	PASS	39	9.91	0.021	10.14	0.021	2.3	0.0	PASS
16	10.18	0.021	9.86	0.021	-3.1	0.0	PASS	40	9.93	0.022	10.00	0.022	0.7	0.0	PASS
17	10.16	0.021	10.11	0.022	-0.5	3.3	PASS	41	9.86	0.021	9.92	0.021	0.6	0.0	PASS
18	10.05	0.021	9.92	0.021	-1.3	0.0	PASS	42	9.99	0.021	10.13	0.021	1.4	0.0	PASS
19	10.04	0.021	9.78	0.021	-2.6	0.0	PASS	43	10.13	0.021	9.84	0.021	-2.9	0.0	PASS
20	10.16	0.022	10.05	0.021	-1.1	-3.2	PASS	44	9.86	0.021	9.91	0.022	0.5	3.3	PASS
21	9.97	0.022	10.13	0.021	1.6	-3.2	PASS	45	9.84	0.021	9.88	0.022	0.4	3.3	PASS
22	9.92	0.021	10.00	0.022	0.8	3.3	PASS	46	9.86	0.022	10.18	0.021	3.2	-3.2	PASS
23	9.83	0.021	9.89	0.021	0.6	0.0	PASS	47	10.25	0.022	10.09	0.022	-1.6	0.0	PASS
24	9.99	0.022	10.10	0.021	1.1	-3.2	PASS	48	9.85	0.022	10.15	0.021	3.0	-3.2	PASS
AVG	10.01	0.021	10.01	0.021	0.01	-0.2	PASS	R	0.49	0.00	0.47	0.00	-	-	-
MAX	10.25	0.022	10.22	0.022	4.0	3.3	PASS	Σ	0.14	0.00	0.13	0.00	-	-	-
MIN	9.76	0.021	9.75	0.021	-4.3	-3.2	PASS								

Test judging：PASS

Thermal shock

CONDITION：

Step1：-40±2℃ 30±5min

Step2：25±2℃ ≦0.5min

Step3：105±2℃ 30±5min

Number of cycles： 500

Measured at room fempraturc after placing for 24±2 hrs

Equipment：高新 TH-1S-C、RF LCR METER；Test the quantity：48pcs

REQUIREMENT:

a. Appearance : Cracking , chipping and any other defects harmful to the characteristics should not be allowed。

b. Inductance: Within ±10% of initial value。

RDC：within ±15% of initial value and shall not exceed the specification value

NO.	Before		After		Change Rate, %		Appearance	NO.	Before		After		Change Rate, %		Appearance
	LS	RDC	LS	RDC	LS	RDC			LS	RDC	LS	RDC	LS	RDC	
1	9.92	0.021	9.80	0.022	-1.2	3.3	PASS	25	9.88	0.022	9.95	0.022	0.7	0.0	PASS
2	9.75	0.022	9.94	0.022	1.9	0.0	PASS	26	10.18	0.021	10.02	0.021	-1.6	0.0	PASS
3	9.97	0.021	9.88	0.021	-0.9	0.0	PASS	27	10.15	0.022	10.19	0.022	0.4	0.0	PASS
4	9.84	0.021	10.25	0.022	4.2	3.3	PASS	28	10.20	0.022	10.18	0.022	-0.2	0.0	PASS
5	10.13	0.021	9.81	0.021	-3.2	0.0	PASS	29	9.98	0.021	10.10	0.022	1.2	3.3	PASS
6	10.17	0.021	10.21	0.021	0.4	0.0	PASS	30	10.17	0.022	9.82	0.021	-3.4	-3.2	PASS
7	9.98	0.022	10.16	0.022	1.8	0.0	PASS	31	9.97	0.021	9.79	0.022	-1.8	3.3	PASS
8	9.80	0.021	9.90	0.021	1.0	0.0	PASS	32	10.12	0.021	9.87	0.021	-2.5	0.0	PASS
9	10.12	0.022	9.80	0.022	-3.2	0.0	PASS	33	10.01	0.022	9.77	0.021	-2.4	-3.2	PASS
10	9.78	0.022	9.87	0.022	0.9	0.0	PASS	34	9.77	0.021	9.79	0.021	0.2	0.0	PASS
11	10.00	0.022	10.01	0.022	0.1	0.0	PASS	35	9.85	0.021	10.09	0.021	2.4	0.0	PASS
12	9.80	0.021	9.96	0.021	1.6	0.0	PASS	36	9.86	0.022	9.89	0.022	0.3	0.0	PASS
13	9.99	0.022	10.06	0.021	0.7	-3.2	PASS	37	9.82	0.022	9.77	0.021	-0.5	-3.2	PASS
14	10.08	0.022	9.86	0.022	-2.2	0.0	PASS	38	9.89	0.022	10.17	0.021	2.8	-3.2	PASS
15	9.77	0.021	10.04	0.021	2.8	0.0	PASS	39	10.10	0.021	10.10	0.021	0.0	0.0	PASS
16	9.91	0.022	9.98	0.021	0.7	-3.2	PASS	40	9.91	0.021	10.20	0.021	2.9	0.0	PASS
17	9.87	0.022	10.11	0.021	2.4	-3.2	PASS	41	9.98	0.022	9.86	0.022	-1.2	0.0	PASS
18	9.95	0.022	10.05	0.021	1.0	-3.2	PASS	42	9.99	0.021	10.11	0.021	1.2	0.0	PASS
19	9.90	0.021	9.78	0.022	-1.2	3.3	PASS	43	10.00	0.022	9.93	0.022	-0.7	0.0	PASS
20	9.84	0.022	10.11	0.021	2.7	-3.2	PASS	44	10.14	0.021	9.80	0.021	-3.4	0.0	PASS
21	9.90	0.021	10.06	0.021	1.6	0.0	PASS	45	9.98	0.021	10.07	0.021	0.9	0.0	PASS
22	10.19	0.021	9.85	0.021	-3.3	0.0	PASS	46	9.77	0.021	10.06	0.021	3.0	0.0	PASS
23	9.77	0.022	9.83	0.022	0.6	0.0	PASS	47	10.08	0.022	10.18	0.021	1.0	-3.2	PASS
24	9.78	0.022	10.23	0.021	4.6	-3.2	PASS	48	10.07	0.021	9.77	0.022	-3.0	3.3	PASS
AVG	9.96	0.021	9.98	0.021	0.2	-0.3	PASS	R	0.45	0.00	0.48	0.00	-	-	-
MAX	10.20	0.022	10.25	0.022	4.6	3.3	PASS	Σ	0.14	0.00	0.15	0.00	-	-	-
MIN	9.75	0.021	9.77	0.021	-3.4	-3.2	PASS								

Test judging：PASS

Vibration

CONDITION：

Oscillation Frequency: 10～2K～10Hz for 20 minutes

Equipment： Vibration checker

Total Amplitude:1.52mm±10%

Testing Time : 12 hours(20 minutes, 12 cycles each of 3orientations)

Test the quantity：15pcs

REQUIREMENT:

a. Appearance : Cracking , chipping and any other defects harmful to the characteristics should not be allowed。

b. Inductance: Within ±10% of initial value。

RDC：within ±15% of initial value and shall not exceed the specification value

NO.	Before		After		Change Rate, %		Appearance
	LS	RDC	LS	RDC	LS	RDC	
1	10.19	0.021	10.10	0.022	-0.9	3.3	PASS
2	10.04	0.021	10.01	0.021	-0.3	0.0	PASS
3	9.97	0.022	10.20	0.022	2.3	0.0	PASS
4	10.00	0.021	9.82	0.022	-1.8	3.3	PASS
5	9.77	0.021	10.09	0.022	3.3	3.3	PASS
6	10.22	0.021	9.77	0.022	-4.4	3.3	PASS
7	9.90	0.022	10.18	0.022	2.8	0.0	PASS
8	9.83	0.022	9.87	0.022	0.4	0.0	PASS
9	10.16	0.022	9.79	0.022	-3.6	0.0	PASS
10	10.24	0.022	9.79	0.021	-4.4	-3.2	PASS
11	10.19	0.021	10.12	0.022	-0.7	3.3	PASS
12	10.25	0.022	9.77	0.021	-4.7	-3.2	PASS
13	9.83	0.022	9.77	0.022	-0.6	0.0	PASS
14	9.95	0.021	9.82	0.022	-1.3	3.3	PASS
15	10.23	0.021	10.17	0.021	-0.6	0.0	PASS
AVG	10.05	0.021	9.95	0.022			
MAX	10.25	0.022	10.20	0.022			
MIN	9.77	0.021	9.77	0.021			
R	0.48	0.001	0.43	0.001			
Σ	0.17	0.000	0.17	0.000			

Test judging：PASS

Shock

CONDITION：

Type	Peak value(g's)	Normal duration (D) (ms)	Wave form	Velocity change (Vi)ft/sec
SMD	1.5	0.5	Half-sine	15.4
Lead	100	6	Half-sine	12.3

Test the quantity：15pcs

REQUIREMENT:

a. Appearance : Cracking , chipping and any other defects harmful to the characteristics should not be allowed。

b. Inductance: Within ±10% of initial value。

RDC：within ±15% of initial value and shall not exceed the specification value

NO.	Before		After		Change Rate, %		Appearance
	LS	RDC	LS	RDC	LS	RDC	
1	10.23	0.022	10.00	0.021	-2.2	-3.2	PASS
2	9.98	0.021	9.76	0.021	-2.2	0.0	PASS
3	10.05	0.021	10.09	0.022	0.4	3.3	PASS
4	9.82	0.021	9.81	0.021	-0.1	0.0	PASS
5	10.20	0.022	10.16	0.021	-0.4	-3.2	PASS
6	9.97	0.021	9.95	0.021	-0.2	0.0	PASS
7	10.19	0.022	10.02	0.021	-1.7	-3.2	PASS
8	9.89	0.021	10.20	0.021	3.1	0.0	PASS
9	9.93	0.022	9.91	0.022	-0.2	0.0	PASS
10	10.17	0.021	10.22	0.021	0.5	0.0	PASS
11	9.88	0.022	10.24	0.021	3.6	-3.2	PASS
12	10.22	0.022	10.07	0.021	-1.5	-3.2	PASS
13	9.96	0.021	10.23	0.021	2.7	0.0	PASS
14	9.81	0.021	10.02	0.021	2.1	0.0	PASS
15	10.24	0.021	9.89	0.021	-3.4	0.0	PASS
AVG	10.04	0.021	10.04	0.021			
MAX	10.24	0.022	10.24	0.022			
MIN	9.81	0.021	9.76	0.021			
R	0.43	0.001	0.48	0.001			
Σ	0.16	0.000	0.15	0.000			

Test judging：PASS

Bending

CONDITION：

Shall be mounted on a FR4 substrate of the

following dimensions: >=0805:40x100x1.2mm<0805:40x100x0.8mm

Bending depth: >=0805:1.2mm<0805:0.8mm

for a min. duration of 10 sec.

Test the quantity：15pcs

REQUIREMENT:

a. Appearance : Cracking , chipping and any other defects harmful to the characteristics should not be allowed。

b. Inductance: Within ±10% of initial value。

RDC：within ±15% of initial value and shall not exceed the specification value

NO.	Before		After		Change Rate, %		Appearance
	LS	RDC	LS	RDC	LS	RDC	
1	10.21	0.021	10.08	0.022	-1.3	3.3	PASS
2	10.09	0.021	10.06	0.022	-0.3	3.3	PASS
3	10.00	0.021	10.20	0.022	2.0	3.3	PASS
4	10.16	0.021	10.03	0.021	-1.3	0.0	PASS
5	9.88	0.021	10.05	0.021	1.7	0.0	PASS
6	9.75	0.021	10.06	0.021	3.2	0.0	PASS
7	9.75	0.021	9.93	0.022	1.8	3.3	PASS
8	9.83	0.021	9.79	0.021	-0.4	0.0	PASS
9	9.91	0.021	9.80	0.022	-1.1	3.3	PASS
10	10.14	0.022	10.17	0.021	0.3	-3.2	PASS
11	10.12	0.022	9.80	0.022	-3.2	0.0	PASS
12	10.14	0.021	9.79	0.021	-3.5	0.0	PASS
13	10.21	0.021	9.87	0.022	-3.3	3.3	PASS
14	9.92	0.022	9.94	0.021	0.2	-3.2	PASS
15	10.24	0.022	9.84	0.022	-3.9	0.0	PASS
AVG	10.02	0.021	9.96	0.021			
MAX	10.24	0.022	10.20	0.022			
MIN	9.75	0.021	9.79	0.021			
R	0.49	0.001	0.41	0.001			
Σ	0.17	0.000	0.14	0.000			

Test judging：PASS

Insulation Resistance

CONDITION：

Test Voltage:100±10%V for 30Sec.

Test the quantity：15pcs

REQUIREMENT:

a. Appearance : Cracking , chipping and any other defects harmful to the characteristics should not be allowed。

b. Inductance: Within ±10% of initial value。

RDC：within ±15% of initial value and shall not exceed the specification value

NO.	Before		After		Change Rate, %		Appearance
	LS	RDC	LS	RDC	LS	RDC	
1	10.17	0.022	10.00	0.022	-1.7	0.0	PASS
2	9.92	0.021	9.91	0.021	-0.1	0.0	PASS
3	10.10	0.022	9.97	0.021	-1.3	-3.2	PASS
4	9.80	0.022	9.96	0.022	1.6	0.0	PASS
5	10.09	0.021	10.08	0.021	-0.1	0.0	PASS
6	9.92	0.021	9.77	0.021	-1.5	0.0	PASS
7	9.86	0.021	10.05	0.021	1.9	0.0	PASS
8	10.07	0.022	9.92	0.021	-1.5	-3.2	PASS
9	10.23	0.021	9.95	0.022	-2.7	3.3	PASS
10	10.12	0.021	10.14	0.022	0.2	3.3	PASS
11	10.16	0.021	10.21	0.021	0.5	0.0	PASS
12	10.12	0.021	9.76	0.022	-3.6	3.3	PASS
13	10.19	0.022	10.01	0.022	-1.8	0.0	PASS
14	9.85	0.021	10.04	0.021	1.9	0.0	PASS
15	10.19	0.021	10.17	0.021	-0.2	0.0	PASS
AVG	10.05	0.021	10.00	0.021			
MAX	10.23	0.022	10.21	0.022			
MIN	9.80	0.021	9.76	0.021			
R	0.43	0.001	0.45	0.001			
Σ	0.14	0.000	0.13	0.000			

Test judging：PASS

Soderability

CONDITION：

Preheat: 150℃,60sec.。

Solder: Sn99.5%-Cu0. 5%。

Temperature: 245±5℃。

Flux for lead free: Rosin. 9.5%。

Dip time: 4±1sec。

Depth: completely cover the termination

Test the quantity：30pcs

Magnification 50X。

Magnification 50X。

Appearance：More than 95% of the terminal electrode should be covered with solder

NO.1	OK	NO.16	OK
NO.2	OK	NO.17	OK
NO.3	OK	NO.18	OK
NO.4	OK	NO.19	OK
NO.5	OK	NO.20	OK
NO.6	OK	NO.21	OK
NO.7	OK	NO.22	OK
NO.8	OK	NO.23	OK
NO.9	OK	NO.24	OK
NO.10	OK	NO.25	OK
NO.11	OK	NO.26	OK
NO.12	OK	NO.27	OK
NO.13	OK	NO.28	OK
NO.14	OK	NO.29	OK
NO.15	OK	NO.30	OK

Test judging：PASS

Resistance to SolderingHeat

CONDITION：

Temperature (℃)	Time (s)	Temperature ramp/immersion and emersion	Number of heat cycles
260 ±5 (solder temp)	10 ±1	25mm/s ±6 mm/s	1

Test the quantity：15pcs

REQUIREMENT:

a. Appearance : Cracking , chipping and any other defects harmful to the characteristics should not be allowed。

b. Inductance: Within ±10% of initial value。

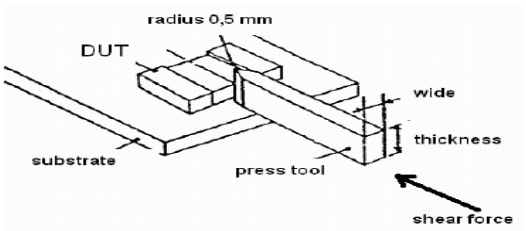
RDC：within ±15% of initial value and shall not exceed the specification value

NO.	Before		After		Change Rate, %		Appearance
	LS	RDC	LS	RDC	LS	RDC	
1	9.90	0.022	9.98	0.021	0.8	-3.2	PASS
2	9.91	0.022	10.14	0.021	2.3	-3.2	PASS
3	10.22	0.021	9.81	0.022	-4.0	3.3	PASS
4	9.97	0.021	9.84	0.021	-1.3	0.0	PASS
5	10.24	0.022	10.24	0.021	0.0	-3.2	PASS
6	10.22	0.021	10.21	0.021	-0.1	0.0	PASS
7	10.14	0.021	10.25	0.021	1.1	0.0	PASS
8	10.10	0.022	10.00	0.021	-1.0	-3.2	PASS
9	10.19	0.022	10.05	0.022	-1.4	0.0	PASS
10	9.90	0.022	10.16	0.022	2.6	0.0	PASS
11	9.80	0.022	10.13	0.021	3.4	-3.2	PASS
12	9.82	0.022	10.05	0.022	2.3	0.0	PASS
13	9.90	0.021	9.91	0.022	0.1	3.3	PASS
14	10.24	0.022	10.07	0.022	-1.7	0.0	PASS
15	10.04	0.021	10.03	0.021	-0.1	0.0	PASS
AVG	10.04	0.021	10.06	0.021			
MAX	10.24	0.022	10.25	0.022			
MIN	9.80	0.021	9.81	0.021			
R	0.44	0.001	0.44	0.001			
Σ	0.16	0.000	0.14	0.000			

Test judging：PASS

Terminal Strength

With the component mounted on a PCB with the device to be tested, apply a force (>0805:1kg , <=0805:0.5kg)to the side of a device being tested. This force shall be applied for 60 +1 seconds. Also the force shall be applied gradually as not to apply a shock to the component being tested



Test the quantity：15pcs

REQUIREMENT:

a. Appearance : Cracking , chipping and any other defects harmful to the characteristics should not be allowed。

b. Inductance: Within ±10% of initial value。

RDC：within ±15% of initial value and shall not exceed the specification value

NO.	Before		After		Change Rate, %		Appearance
	LS	RDC	LS	RDC	LS	RDC	
1	9.88	0.022	10.11	0.022	2.3	0.0	PASS
2	10.16	0.022	10.05	0.021	-1.1	-3.2	PASS
3	9.83	0.022	9.82	0.022	-0.1	0.0	PASS
4	9.94	0.021	9.97	0.021	0.3	0.0	PASS
5	10.04	0.022	9.91	0.022	-1.3	0.0	PASS
6	9.89	0.022	9.87	0.022	-0.2	0.0	PASS
7	10.20	0.021	10.04	0.022	-1.6	3.3	PASS
8	9.98	0.021	9.86	0.021	-1.2	0.0	PASS
9	9.76	0.021	10.02	0.022	2.7	3.3	PASS
10	10.09	0.021	10.25	0.022	1.6	3.3	PASS
11	10.03	0.021	10.05	0.022	0.2	3.3	PASS
12	10.10	0.021	9.77	0.021	-3.3	0.0	PASS
13	10.21	0.021	10.08	0.022	-1.3	3.3	PASS
14	10.08	0.022	9.90	0.022	-1.8	0.0	PASS
15	9.86	0.021	9.85	0.021	-0.1	0.0	PASS
AVG	10.00	0.021	9.97	0.021			
MAX	10.21	0.022	10.25	0.022			
MIN	9.76	0.021	9.77	0.021			
R	0.45	0.001	0.48	0.001			
Σ	0.14	0.000	0.13	0.000			

Test judging：PASS

High Temperature Operation allLife

CONDITION：

Temperature：85±2℃

Duration ：1000hrs Min. with 100% rated current.

Measured at room temperature after placing for24±2 hrs

Equipment：高新 TH-1S-C、RF LCR METER；Test the quantity：48pcs

REQUIREMENT:

a. Appearance : Cracking , chipping and any other defects harmful to the characteristics should not be allowed。

b. Inductance : Within ±10% of initial value.

RDC：within ±15% of initial value and shall not exceed the specification value

NO.	Before		After		Change Rate, %		Appearance	NO.	Before		After		Change Rate, %		Appearance
	LS	RDC	LS	RDC	LS	RDC			LS	RDC	LS	RDC	LS	RDC	
1	9.84	0.022	9.98	0.022	1.4	0.0	PASS	25	9.88	0.022	9.78	0.021	-1.0	-3.2	PASS
2	10.04	0.022	9.82	0.022	-2.2	0.0	PASS	26	9.83	0.021	9.96	0.021	1.3	0.0	PASS
3	10.16	0.021	10.07	0.021	-0.9	0.0	PASS	27	9.85	0.022	9.93	0.021	0.8	-3.2	PASS
4	10.07	0.021	10.01	0.021	-0.6	0.0	PASS	28	10.11	0.021	9.89	0.022	-2.2	3.3	PASS
5	9.94	0.021	10.12	0.022	1.8	3.3	PASS	29	9.76	0.021	9.87	0.021	1.1	0.0	PASS
6	10.19	0.022	10.17	0.021	-0.2	-3.2	PASS	30	9.95	0.021	9.85	0.022	-1.0	3.3	PASS
7	10.12	0.021	10.22	0.021	1.0	0.0	PASS	31	9.94	0.022	10.08	0.022	1.4	0.0	PASS
8	9.97	0.022	9.96	0.021	-0.1	-3.2	PASS	32	9.79	0.022	9.86	0.021	0.7	-3.2	PASS
9	10.21	0.021	10.19	0.021	-0.2	0.0	PASS	33	9.94	0.021	9.87	0.021	-0.7	0.0	PASS
10	9.98	0.022	10.14	0.022	1.6	0.0	PASS	34	10.00	0.021	10.23	0.022	2.3	3.3	PASS
11	9.93	0.021	10.07	0.022	1.4	3.3	PASS	35	10.20	0.021	10.22	0.021	0.2	0.0	PASS
12	10.07	0.021	9.86	0.022	-2.1	3.3	PASS	36	10.20	0.022	9.80	0.021	-3.9	-3.2	PASS
13	10.06	0.022	9.79	0.021	-2.7	-3.2	PASS	37	10.19	0.021	10.14	0.021	-0.5	0.0	PASS
14	10.24	0.021	9.79	0.021	-4.4	0.0	PASS	38	10.21	0.021	10.06	0.022	-1.5	3.3	PASS
15	10.09	0.021	9.97	0.022	-1.2	3.3	PASS	39	10.09	0.022	9.86	0.022	-2.3	0.0	PASS
16	10.11	0.021	9.75	0.022	-3.6	3.3	PASS	40	9.95	0.022	9.98	0.021	0.3	-3.2	PASS
17	9.88	0.021	10.10	0.022	2.2	3.3	PASS	41	10.02	0.022	10.00	0.021	-0.2	-3.2	PASS
18	10.17	0.021	10.23	0.022	0.6	3.3	PASS	42	9.95	0.021	10.01	0.022	0.6	3.3	PASS
19	10.17	0.021	10.20	0.022	0.3	3.3	PASS	43	10.06	0.022	10.22	0.022	1.6	0.0	PASS
20	9.99	0.021	10.15	0.022	1.6	3.3	PASS	44	10.12	0.021	10.13	0.022	0.1	3.3	PASS
21	9.92	0.021	9.82	0.021	-1.0	0.0	PASS	45	9.82	0.022	9.92	0.021	1.0	-3.2	PASS
22	9.97	0.021	9.99	0.022	0.2	3.3	PASS	46	10.01	0.021	10.04	0.021	0.3	0.0	PASS
23	9.93	0.022	10.19	0.022	2.6	0.0	PASS	47	9.83	0.022	10.07	0.022	2.4	0.0	PASS
24	10.06	0.022	9.99	0.022	-0.7	0.0	PASS	48	9.92	0.021	9.88	0.022	-0.4	3.3	PASS
AVG	10.02	0.021	10.00	0.021	-	-	PASS	R	0.48	0.00	0.48	0.00	-	-	-
MAX	10.24	0.022	10.23	0.022	-	-	PASS	Σ	0.13	0.00	0.14	0.00	-	-	-
MIN	9.76	0.021	9.75	0.021	-	-	PASS								

Test judging：PASS