承认书

SPECIFICATION FOR APPROVAL

客户 Customer	
客户料号 Customer P/N	
安规型号 Safety Model	
品名 Description	**Common Mode Inductor**
产品型号 Product Model	**T8X4X3-780uH±35%(Z6391-S)**
图纸编号 Drawing No.	**2026020701**
版本 REV	**A0**

出图 DRAWING		
制作 Prepared	**审核 Checked**	**批准 Approved**
尤标	夏欢	陈林
DATE : 2026-2-7		

客户承认 CUSTOMER APPROVE

惠州市长瑞工贸有限公司

（Huizhou Changrui Industry and Trade Co., Ltd.）

惠州市长瑞智造电子有限公司

（Huizhou Changruizhizao Electronics Co., Ltd.）

Web:www.changereal.cn/Tel:0752-2280100/Fax:0752-2280130

地址(Add)： 惠州市惠城区水口街道水青路1号联东U谷1栋11楼

11th Floor, Building 1, Liandong U Valley, No.1 Shuiqing Road, Shuikou Street, Huicheng District, Huizhou City

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CHANGE LIST 变更履历

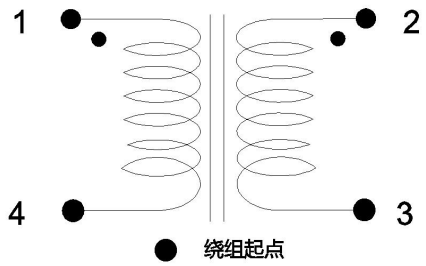
DATE 日期	VERSION 版本	CHANGE CONTENT 修订内容	PREPARED 制定	CHECKED 审核
2026/2/7	A0	Initial release	尤标	夏欢

Note: 规格书变更需升级版本.

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1. SCHEMATICS (接线图）：



2. WINDING CONSTRUCTION（绕组结构）：

ORDER	S - F 开始 - 结束	WIRE SIZE 线径	TURNS 圈数	NOTES 说明
N1	1 - 4	UEW-F Φ0.3mm 本色	13.5Ts	并绕
N2	2 - 3	MIW-B Φ0.3mm 黄色	13.5Ts	并绕

Note :

3. ELECTRICAL SPECIFICATION (at 25°C) 电性规格

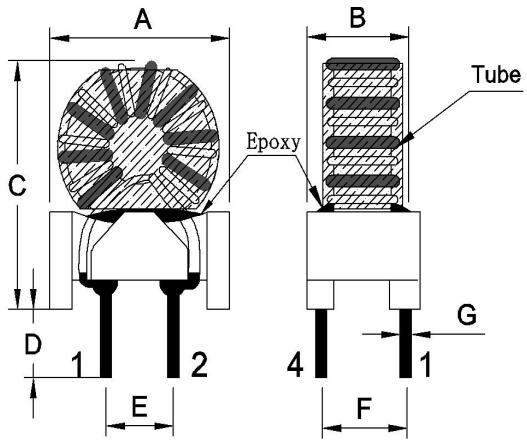
Test Item 测试项目	SPEC 规格	Test Condition 测试条件	Test Instruments 测试仪器
Inductance 电感 L(1-4) = L(2-3)	780uH±35%	1kHz, 0.3V,R100Ω	ZX1373X-12A
$\lvert L_{1-4} - L_{2-3} \rvert$ (< 2%)	40uH max	1kHz, 0.3V,R100Ω	ZX1373X-12A
DCR(1-4) = DCR(2-3) 直流阻抗	68mΩ max	25°C	TH2512B
Insulation Resistance 绝缘阻抗	100MΩ Min.	DC 500V COIRS-CORE	ZX9320S-4
HI-POT 耐电压测试	1200V AC	5mA,5S 50Hz ACR:7 COIRS-COIRS	WB 2670B
	600V AC	5mA,5S 50Hz ACR:7 COIRS-CORE	WB 2670B
Irms 温升电流	1.0A	△T≤40°C 1-3shorted(2-4)	ZX1373X-12A
Z1 共模阻抗	600Ω min	1MHz	4395A
Z2 共模阻抗	1200Ω min	5±2.5MHz	4395A
Z3 共模阻抗	900Ω min	10MHz	4395A

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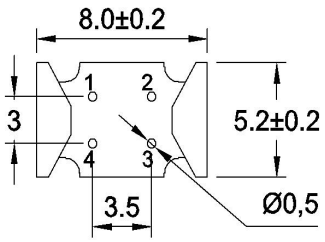
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4. DIMENSIONS 尺寸: (Unit:mm)



正视图 侧视图



底座底视图



SPEC. (mm)	
A	10.8max
B	6.0max
C	12.8max
D	2.5±0.3
E	3.5±0.3
F	3.0±0.3
G	0.5±0.1

Note: 绝漆并绕，绕线平整无交叉伤线，线包置于BASE中心，不可歪斜，点胶固定，产品套热缩套管，产品需含浸。

5. DEFINITION OF PRODUCT NAME 产品名称定义:

T	8X4X3	780uH±35%				
A	B	C	D	E	F	G

A.产品类型：环形电感
B.磁芯尺寸规格
C.感量
D.
E.
F.
G.

6. GENERAL SPECIFICATON :

a. Storage temperature : -25°C ~ 50°C, R.H. : 30% ~ 70%
b. Operating temperature : -40°C ~ +120°C
c. Moisture sensitivity level (MSL) 2 (1 year floor life at <30°C/85% relative humidity)
d. Failures in time(FIT)/Mean time between failures(MTBF) 38 per billiion hours/26,315,789 hours, calculated per Telcordia SR-332

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7. MATERIAL LIST 材料清单:

No.	Item	Material Description 材料描述	Manufacturer 制造商	TEMP 温度	UL File UL档案号	Remark
1	CORE	绿色锰锌-T8X4X3 HR10K	Shandong Hengrui Magnet Co., Ltd.			V
2	WIRE	QA-X/155 0.3mm本色	NINGBO JINTIAN NEW MATERIAL CO.. LTD	155℃	E227047	
		QA-X/155 0.3mm本色	HONGQI GROUP JIANGXI COPPER CO.,LTD.	155℃	E355168	
	Triple Insulated Wire	TKW-B 0.3mm黄色	Shanghai Xiangxiang Electronics Co., Ltd	125℃	E308908	
		MIW-B 0.3mm黄色	Huizhou Huaying Electronic Technoiogy CO., LTD	125℃	E470559	
3	VARNISH	JX-1150(*)	Yueyang GREEN Technology Co., Ltd.	130℃	E303754	
4	EPOXY	HCJ802	DONGGUAN EATTO ELECTRONIC MATERIAL CO.,LTD.	130℃	E218090	
5	BASE	PM9823	SUMITOMO BAKELITE CO..LTD	150℃	E41429	
6	Sn	SC07	Guangdong Zhongshi Metal Co., Ltd	/	/	
7	Tube	T2	DONGGUAN QUANTAIINDUSTRIAL CO.,LTD	125℃	E227336	

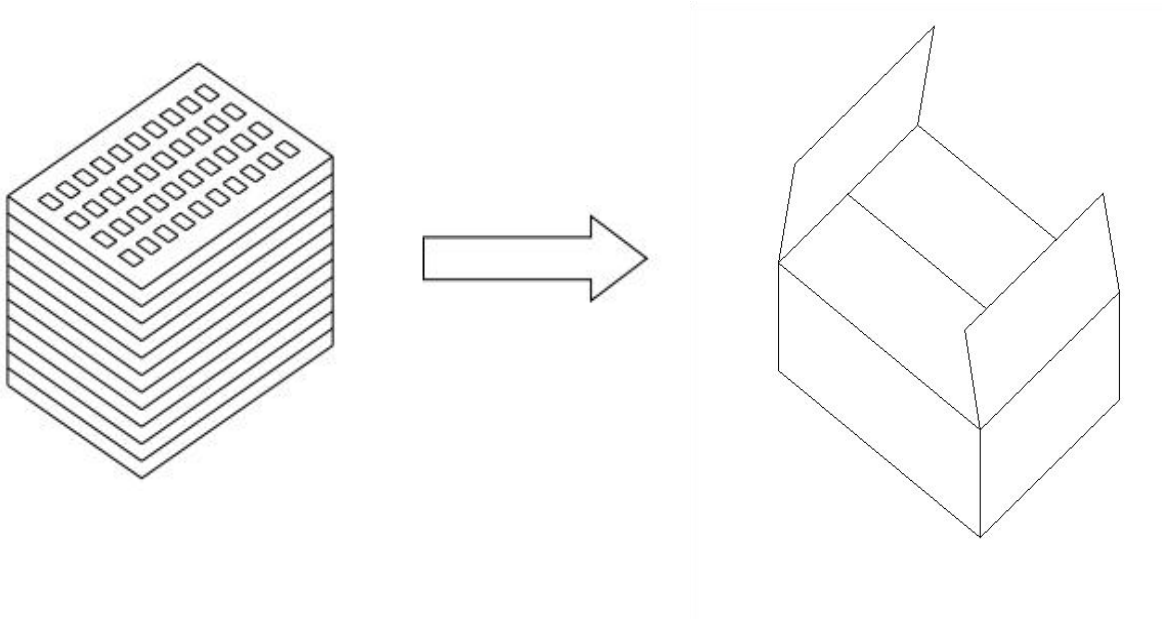
Note : Core source marded "V" means design & verify ok. 磁芯打“V” 表示设计验证Ok.

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8. PACKAGE SPECIFICATION 包装规格:



序号(N0)	包装材料 Packing material	尺寸 Size	材质 Material	数量 Quantity
1	吸塑Plastic uptake	378*275*13mm	PET	240/BOX
2	外箱Master Carton	385*280*145mm	K636K	4800/Carton

Remark : Weight (REF): 1.01g

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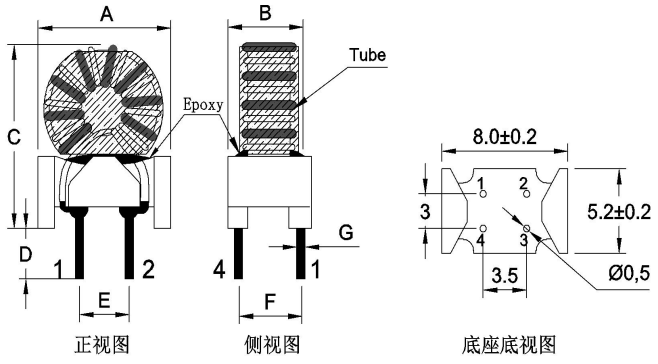
9. TEST DATA FOR PREPRODUCTION SAMPLE 样品测试数据:

Electrical Characteristic 电气特性				Dimensions 尺寸 (mm)						
Item	L1-4,L2-3	DCR 1-4, 2-3	HI-POT COIRS-COIRS	A	B	C	D	E	F	G
STD.	780uH±35%	68mΩ max	1200V AC 5mA/5s/50Hz ACR:7	10.8max	6.0max	12.8max	2.5±0.3	3.5±0.3	3.0±0.3	0.5±0.1
1	789	44.2	PASS	9.65	5.27	11.93	2.58	3.56	3.02	0.48
2	825	44.5	PASS	9.72	5.21	11.95	2.51	3.57	3.05	0.48
3	869	44.6	PASS	9.68	5.32	12.05	2.56	3.51	3.11	0.49
4	746	44.1	PASS	9.75	5.26	12.03	2.53	3.48	3.06	0.48
5	741	45.2	PASS	9.73	5.24	11.96	2.57	3.52	3.12	0.49
6	738	45.1	PASS	9.77	5.27	11.89	2.54	3.56	3.07	0.48
7	729	44.8	PASS	9.81	5.24	11.94	2.55	3.34	3.07	0.48
8	725	44.3	PASS	9.69	5.32	12.06	2.65	3.62	3.01	0.49
9	715	44.7	PASS	9.63	5.20	11.97	2.61	3.61	3.06	0.48
10	926	44.6	PASS	9.64	5.25	11.90	2.74	3.57	3.02	0.49
$\overline{X}$	780.3	44.61	/	9.71	5.26	11.97	2.58	3.53	3.06	0.48

综合判定

√ OK NG

外观尺寸图

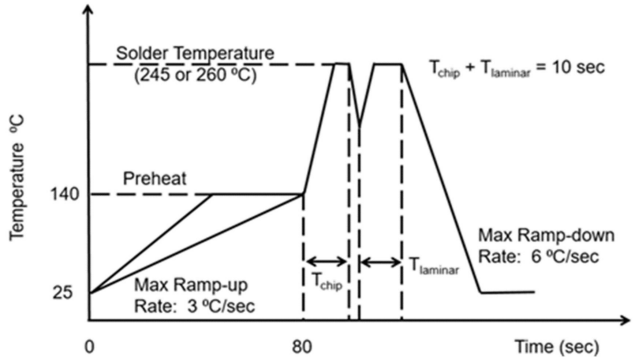


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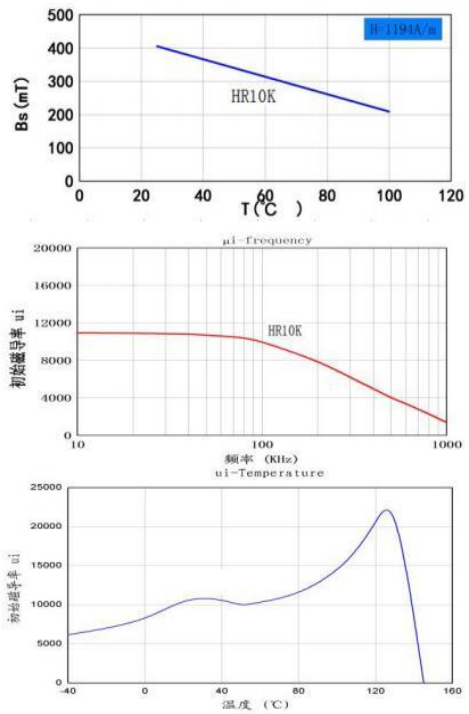
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10. SOLDERING CONDITIONS 焊锡条件:

Solding process 焊接工艺	Wave soldering 波峰焊 
Resistnace to soldering heat requirements 耐焊接热要求	Soldering times 焊接次数：≥ 3次
	Wave soldering heat resistance requirements波峰焊耐热要求: 1> 器件引脚峰值温度≥265℃，265℃以上时间≥10s 2> 器件本体满足峰值温度Tp≥160℃，Tp-5℃以上时间tp≥30s，且120℃以 上时间t≥150s

11. CORE MATERIAL CHARACTERISTIC 磁芯材质特性



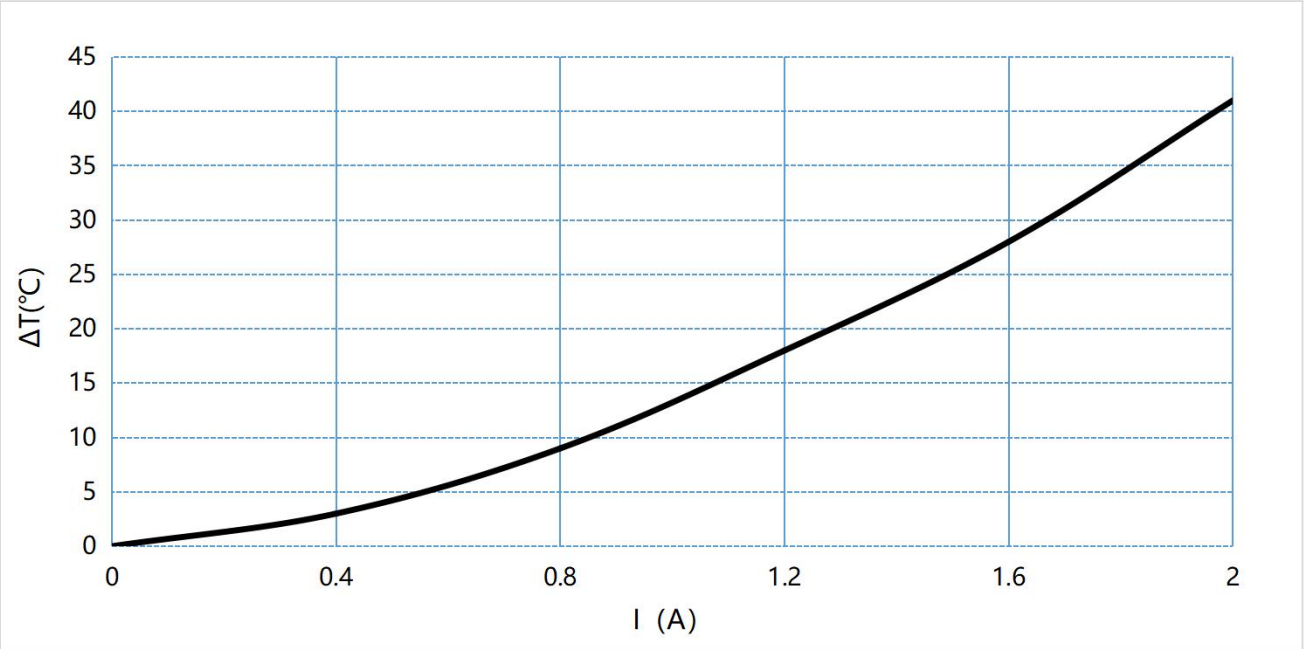
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12. TEMPERATURE RISE CURRENT CURVE 温升电流曲线：

I（A）	0	0.4	0.8	1.2	1.6	2.0	
TEMPETURE（ΔT）	0	3	9	18	28	41	

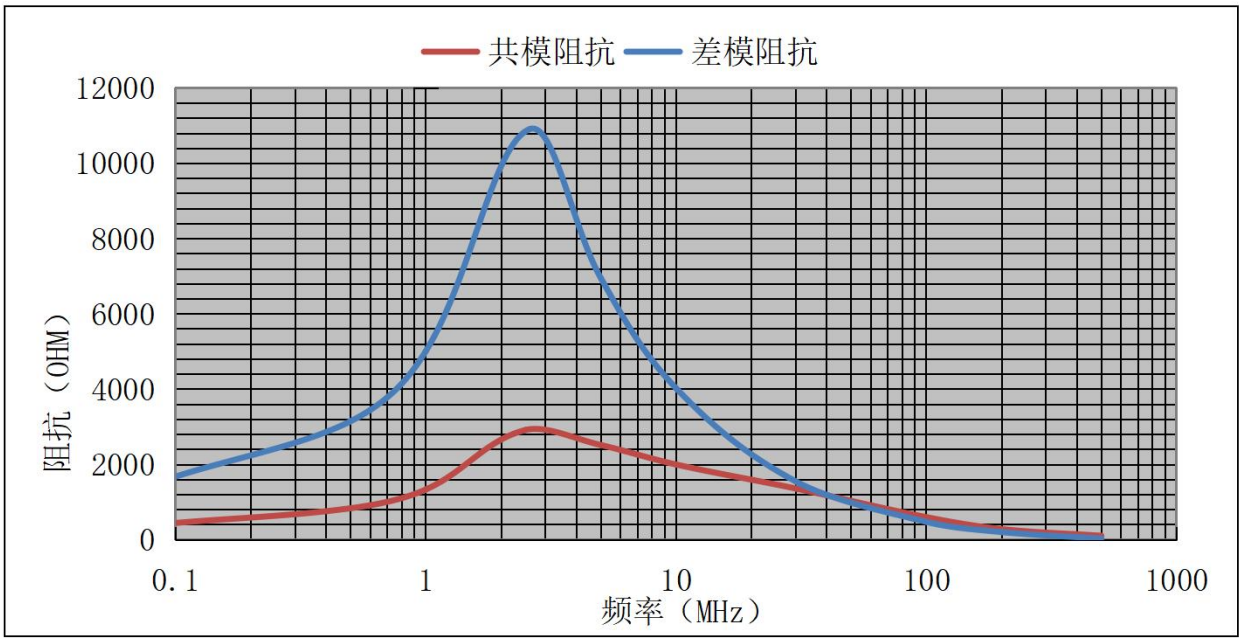


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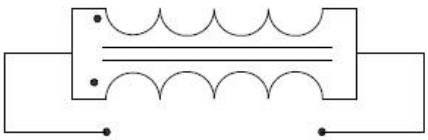
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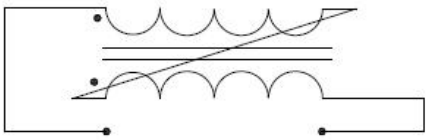
13. IMPEDANCE CURVE 阻抗曲线:



Test Setup：



Common Mode 共模阻抗



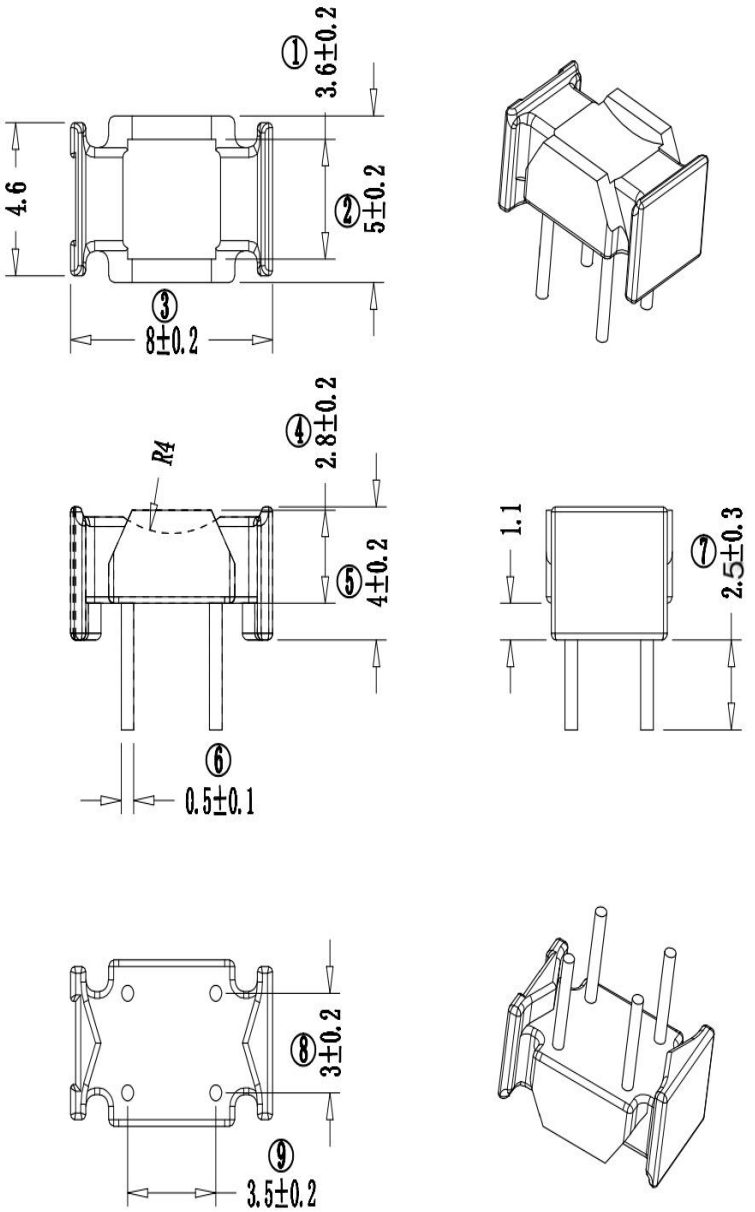
Differential Mode 差模阻抗

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14. BASE DRAWING 底座图纸:



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15. APPEARANCE TEST DATA 外观尺寸测试数据：(单位：mm)

Item	A	B	C	D	E	F	G
STD.	10.8max	6.0max	12.8max	2.5±0.3	3.5±0.3	3.0±0.3	0.5±0.1
1	9.63	5.35	11.80	2.59	3.59	2.97	0.49
2	9.61	5.23	11.93	2.64	3.60	3.04	0.48
3	9.58	5.26	12.03	2.51	3.46	3.07	0.49
4	9.71	5.30	11.94	2.54	3.43	2.94	0.48
5	9.67	5.36	12.03	2.61	3.43	2.97	0.48
6	9.57	5.29	11.82	2.64	3.53	3.03	0.48
7	9.64	5.28	12.03	2.63	3.59	3.03	0.49
8	9.67	5.25	11.98	2.52	3.46	2.97	0.49
9	9.58	5.32	11.90	2.59	3.41	2.94	0.49
10	9.67	5.32	11.88	2.55	3.56	2.98	0.48
11	9.65	5.27	12.10	2.58	3.53	3.01	0.49
12	9.64	5.27	12.09	2.59	3.42	3.04	0.48
13	9.69	5.35	11.97	2.57	3.60	3.07	0.48
14	9.75	5.36	12.09	2.54	3.47	3.04	0.48
15	9.63	5.33	12.08	2.61	3.60	3.04	0.48
16	9.72	5.24	11.88	2.54	3.55	3.01	0.49
17	9.57	5.30	11.87	2.62	3.59	3.08	0.48
18	9.54	5.27	11.85	2.61	3.57	2.93	0.49
19	9.55	5.29	11.88	2.53	3.58	2.99	0.48
20	9.55	5.27	11.84	2.64	3.55	2.98	0.48
21	9.61	5.32	11.96	2.53	3.40	2.90	0.48
22	9.61	5.25	11.91	2.55	3.52	3.05	0.48
23	9.60	5.24	11.93	2.63	3.42	2.98	0.49
24	9.66	5.34	11.81	2.52	3.42	3.03	0.49
25	9.68	5.36	11.97	2.56	3.47	3.00	0.49
26	9.56	5.34	11.82	2.52	3.59	3.09	0.48
27	9.56	5.34	11.86	2.63	3.46	3.08	0.48
28	9.55	5.29	12.05	2.59	3.49	3.04	0.48
29	9.55	5.25	11.80	2.57	3.50	2.94	0.49
30	9.67	5.23	11.83	2.59	3.47	3.04	0.49
31	9.66	5.31	11.81	2.62	3.43	2.94	0.49
32	9.66	5.31	11.98	2.54	3.51	3.00	0.49
33	9.61	5.31	12.03	2.54	3.48	3.09	0.48
34	9.56	5.28	12.00	2.64	3.55	3.07	0.49
35	9.62	5.34	12.00	2.58	3.55	2.95	0.49
36	9.57	5.29	11.85	2.53	3.49	3.03	0.49
MIN	9.54	5.23	11.80	2.51	3.40	2.90	0.48
MAX	9.75	5.36	12.10	2.64	3.60	3.09	0.49
$\overline{X}$	9.62	5.30	11.93	2.58	3.51	3.01	0.49

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16.Electrical Characteristic TEST DATA 电气特性测试数据

Item	L	DCR	Z1 1MHz	Z2 5±2.5MHz	Z3 10MHz
STD.	780uH±35%	68mΩ max	600Ω min	1200Ω min	900Ω min
1	877	43.9	1173	2366	2009
2	695	44.4	1190	2064	1845
3	937	45.0	1113	2085	1989
4	900	44.5	1091	2055	1880
5	728	45.2	1040	2248	1845
6	864	43.6	1039	2428	1995
7	921	43.6	1227	2247	1723
8	926	44.1	1082	2163	1901
9	876	45.1	1129	2234	1816
10	878	44.5	1182	2246	1892
11	845	45.0	1238	2048	2019
12	952	43.6	1215	2093	1987
13	950	44.7	1149	2090	1910
14	840	43.5	1158	2360	1846
15	870	44.3	1153	2154	1990
16	709	44.2	1246	2318	1878
17	868	45.0	1102	2128	1833
18	828	44.6	1031	2429	1723
19	828	45.2	1026	2215	1760
20	757	43.6	1142	2399	1978
21	873	43.7	1205	2223	2000
22	734	45.2	1027	2223	1817
23	864	43.6	1201	2355	1872
24	830	43.7	1196	2419	1897
25	797	45.0	1050	2212	1745
26	936	44.4	1050	2170	1841
27	882	43.6	1164	2086	1875
28	754	43.9	1168	2411	1879
29	913	45.0	1207	2146	1912
30	818	44.6	1178	2172	1970
31	748	43.7	1113	2449	1908
32	802	44.0	1209	2356	1906
33	924	44.1	1054	2028	1863
34	743	44.6	1182	2224	1954
35	925	44.0	1190	2371	1746
36	916	43.9	1228	2368	1985
MIN	695	43.5	1026.0	2028.0	1723
MAX	952	45.2	1246.0	2449.0	2019
$\bar{X}$	847.34	44.29	1143.00	2238.42	1888.58

PREPARED BY	CHECKED BY	APPROVAL BY
尤标	夏欢	陈林