



智慧创造美好生活

承认书

SPECIFICATION FOR APPROVAL

客户名称/CUSTOMER : 深圳华秋智造有限公司

客户编码/CUSTOMER CODE :

客户版本/CUSTOMER VERSIONS :

产品描述/PRODUCT DESCRIPTION. : EE16

慧创编码/IC CODE : XTH0250025

慧创版本/IC VERSIONS : A0

日期/DATA : 2024/9/26

承制方确认(Approved by Janohig)

拟制 Prepared by	审核 Checked by	批准 Approved by
谢磊	曾昭友	胡凤鹏

客户方确认(Approved by customer)

签字盖章 SIGNATURE OR STAMP

1. Please send back us a copy of the specification with your stamp or signature once the samples approved.
2. It will be deemed the samples to be approved if no feedback.



慧创电子有限公司

IC Electronics Co., LTD

地址: 广东省东莞市清溪镇铁松管理区

Address: Tie Song Management area, Qingxi Town, Dongguan City,
Guangdong Province

地址: 湖南省邵阳市洞口县洞口镇工业园区

Address: Industrial Park in Dongkou Town, Dongkou County, Shaoyang City,
Hunan Province

地址: 马来西亚柔佛州士乃 81400 士乃机场城 SAC 2/4 路 3 号

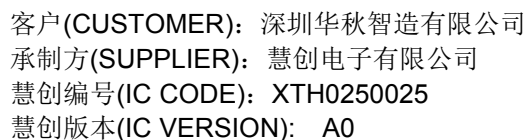
Address: No. 3, Jalan SAC 2/4, Senai Airport City, 81400 Senai, Johor, Malaysia

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victor.hus@hui-chuang.com

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规格书更改记录:

Modified records of specification:

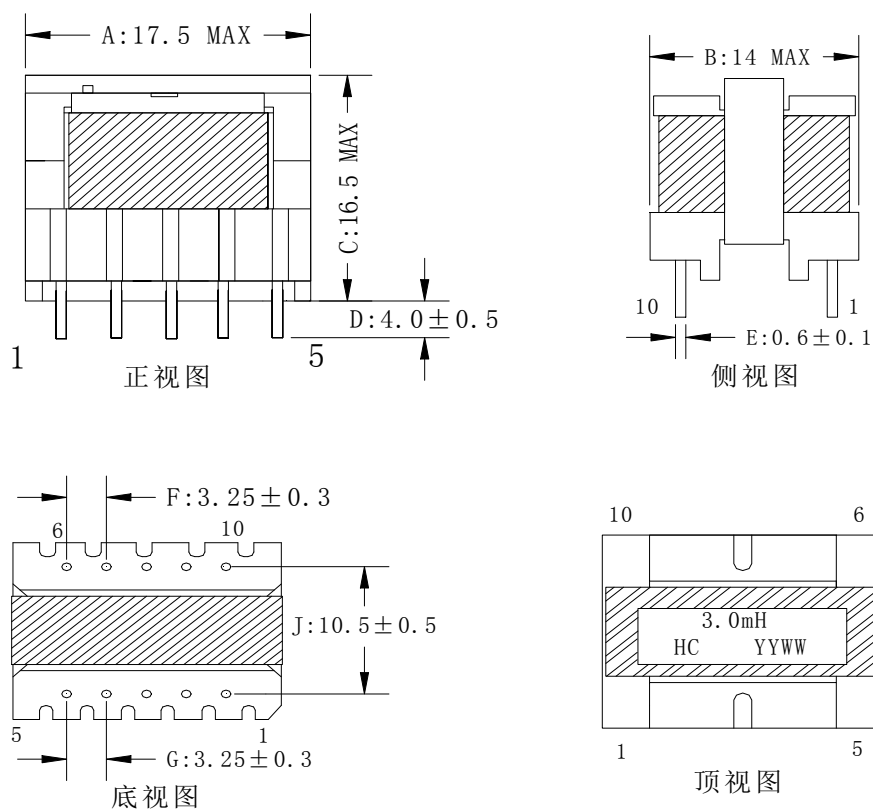
[illegible]



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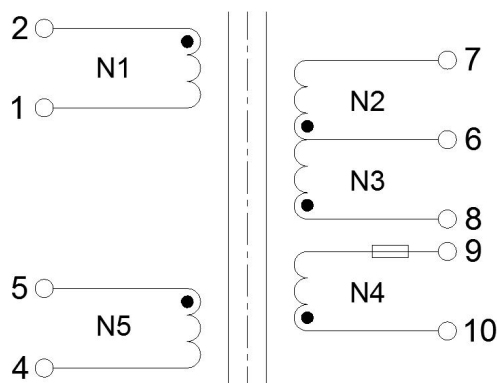
1. 安装尺寸及外形图(CONFIGURATION & DIMENSIONS):



1). UNITS: mm

2). Unless otherwise specified all tolerances are: typical.

2. 原理图(SCHEMATIC):

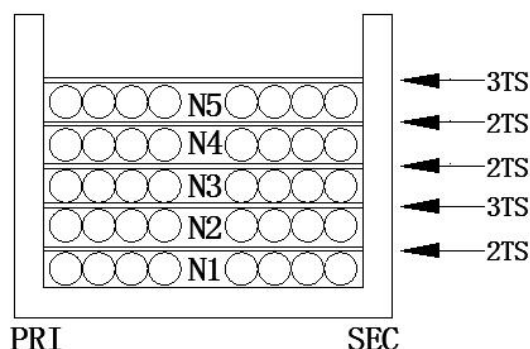




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3.内部结构图(CONSTRUCTION):



4.绕线结构和制作工艺要求 (WINDING STRUCTURE AND PRODUCTION PROCESS REQUIREMENTS)

4.1绕线规格(WINDING SPECIFICATIONS) :

绕组 Winding	引脚号 Pin No.		线径/股数 wire diameter and number of shares	匝数 Turns	绝缘胶带 Tape	备注 Remark
	起始端 Start	终止端 End				
N1	2	1	Φ0.16	145Ts	2	
N2	6	7	0.37*2	8Ts	3	
N3	8	6	0.34	12Ts	2	
N4	10	9	0.26	26Ts	2	
N5	5	4	0.17	24Ts	3	

4.2器件制作工艺要求 (COMPONENT PRODUCTION SPECIFICATION) :

1>

5.工作条件 (WORKING CONDITION) :

5.1 产品正常工作环境温度: -40~+125℃ (包括产品本体上升温度)。

Product normal working environment temperature: -40 ~ + 125 °C (including product body temperature rises).

4.2 环境湿度: 5%~95% (需与产品对应)

Humidity: 5% to 95% (corresponding to the product required)

4.3 产品存储的环境温度: -40~+85℃。

Ambient temperature product storage: -40 ~ + 85 °C.



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6.电气特性 (ELECTRICAL CHARACTERISTICS) :

测试项目 Test items	测试脚位 Test pin	标准范围 Standard range	测试条件 Test Conditions	测试仪器 Test equipment
Inductance	2-1	3.0mH±5%	10kHz, 1.0V @25℃	HP4284A OR EQU.
LK	2-1	90uH MAX (at sec.short)	10kHz, 1.0V @25℃	HP4284A OR EQU.
DCR	2-1	3.8Ω MAX	@25℃	TH2512B OR EQU.
	6-7	25mΩ MAX		
	8-6	105mΩ MAX		
	10-9	400mΩ MAX		
	5-4	900mΩ MAX		
HI-POT	PRI-SEC	AC 3000V	1mA, 3 sec	TH9201S OR EQU
	SEC-CORE	AC 1200V	1mA, 3 sec	
	PRI-PRI	AC 600V	1mA, 3 sec	

(参考参数的标定, 可再最终版本确定后供应商抽测几十 PCS 器件做一个统计值。

Calibration reference parameters may be further determined after the final version of the dozens of suppliers pcs devices to do a spot check statistics)

7.材料清单 (MATERIAL LIST)

项目 ITEM	材质/牌号 MATERIAL	规格/型号	关键指标 KEY SPECIFICATION	耐温等级 TEMP CLASS	生产厂商 MANUFACTURER	安规要求 UL	RoHS
磁芯 Core	JP40	EE16	/	N/A	玖隆旺	N/A	Y
	SSP-4	EE16	/	N/A	尚朋	N/A	Y
骨架 BOBBIN	T375HF	/	/	150℃	CHANG CHUN PLASTICS CO LTD	E59481	Y
漆包线 WIRE	UEWN/U	/	/	130℃	PACIFIC ELECTRIC WIRE&CABLE(SHENZHEN)CO LTD	E201757	Y
胶带 TAPE	CT*(c)(g)	/	/	130℃	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	E165111	Y
套管 TUBE	TFL	/	/	200℃	GREAT HOLDING INDUSTRIAL CO LTD	E156256	Y
凡立水 VARNISH	DA-700-*	/	/	130℃	HUI ZHOU QIANG DA ELECTRONICS INDUSTRY CO LTD	E347463	Y

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8.可靠性试验要求(RELIABILITY TEST REQUIREMENT)

测试项目	测试内容	必选/可选
高温工作试验(Heat Operating Test)	GB2423.2 方法Bd	可选
低温工作试验(Cold Operating Test)	GB2423.1 方法Ad	可选
高温存贮试验(Heat Storage Test)	GB2423.2 方法Bb	可选
低温存贮试验(Cold Storage Test)	GB2423.1 方法Ab	可选
恒定湿热试验(Steady Damp Heat Test)	GB2423.3 方法Cb	可选
交变湿热试验(Circular Damp Heat Test)	GB2423.4 方法Db	可选
温度循环试验(Temperature Cycling Test)	GB2423.22 方法Nb	可选
温度冲击试验(Temperature Shock Test)	GB2423.22 方法Na	必选
振动试验(Vibration Test)	GB2423.10~15 方法Fc, Fdb	可选
机械冲击(碰撞)试验(Mechanical Shock(Bump) Test)	GB2423.5 方法Eb	可选
跌落试验(Free Fall Test)	GB2423.8 方法Ed	可选
盐雾试验	GJB360A-96	可选
耐焊接热试验	GJB360A-96	必选
可焊性试验(Solderability)	GJB360A-96	必选

9.包装、外观和检验要求(PACKAGE AND SEMBLABLE REQUIREMENT)

9.1 包装(PACKAGE REQUIREMENT):

- ①包装箱上标明产品型号、名称、数量、生产周期、出厂日期、承制方名称及出厂检验章;
Indicate the product type, name, number, cycle, date, name and factory inspection
Cheng Zhifang chapter on packaging;
- ②不同生产周期号的同一产品不得放入同一包装箱内;
Same product number of different production cycle cannot be placed in the same box;
- ③货物运达客户方后, 包装箱封条应完好, 箱体无破损、开裂等现象;
Cargo arrives at the customer side, the package seals should be intact, the box
without damage, cracking and so on;
- ④开箱后, 箱内包装材料无破损。产品应分层、间隔包装, 不满一箱应加垫填充物。
After unpacking the box packaging is not damaged. Products should be stratified
interval package, under one box should be padded filler.
- ⑤包装有需要焊接的器件, 在装箱前需装入薄膜袋, 放入适量干燥剂并封口, 防引脚氧化。
Packaging components to be welded, need before packing into the film bag, into the amount
of desiccant and seal, preventing the pin oxidation.
- ⑥要求按 UL1446 文件加工的变压器, 包装上必须增加含有以下五项内容的标签, 即:
UL1446 拥有者的英文名称, UL1446 报告的文件号, UL1446 报告中的型号, 温度等
级, UL 认证标记;
UL1446 file processing required by the transformer must be increased on the package
label containing the following five components, namely: The English name of the owner
UL1446, UL1446 report file number, UL1446 report type, temperature rating, UL
certification mark;

9.2 外观(SEMBLABLE REQUIREMENT)

- ①每件产品应有耐擦防水洗标签或印字, 应注明生产周期、型号或规格; 要求按
UL1446 文件加工的变压器, 每件产品标签必须增加 UL1446 报告文件号、UL 认证标记和型号;
Each product should be scuff water wash label or marking shall indicate production
cycle, model or specifications; UL1446 file processing required by the transformer,
each product label must be added the report file number UL1446, UL certification mark

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and model;

②应有起始端标记（或骨架形状本身可以标明起始端）；

Should start end mark (or skeleton shape itself can indicate the starting end);

③外观整洁。

Neat appearance.

9.3 检验(TEST REQUIREMENT)

①产品生产中必须全数进行电气性能、抗电强度检测；

We must be in full production in the electrical properties, dielectric strength testing;

②产品出货前按批次，必须按国家行业标准进行抽样检验，合格后出具出厂检验报告，记录抽样测试数据，在每批次包装尾箱中放置一份；检验报告须注明 100%耐压测试合格。

注：批次按定单号发货为准。

Before the product shipped in batches, must be based on acknowledgment by the national industry standard sampling, issued after passing the factory inspection reports, test data recorded sample, placed a package in the trunk of each batch; 100 inspection reports to be marked % pressure tested.

NOTE: Batch by Order No. shipments prevail.