



产品规格确认书 Specification for approval

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顾客 Customer: _____

顾客产品名称 Custom Product Name: _____

顾客零件号 : Custom Part No: _____

产品名称 Product Name: Common Mode Choke

产品型号 Product model: SY28TF-160-020-001

发布日期 Publish Date: _____

版本 Version: V1.0

特别说明: 此确认书请顾客在 2 周内确认, 如未在规定时间内答复, 则视为同意。

三友审批签字 Signature by Sanyou			顾客签字或盖章 stamp of signature by customer
编制 Make	审核 Check	批准 Approved	

Especially claim: This specification should be checked in 2 weeks, if had not answered in the scheduled time ,then regards as the agreement.



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变更版记录 Revisions

版本 Version No.	变更内容 Change description	变更原因 Reason	日期 Date	修改 Drafted by	审核 Checked by
1.0	初版	/	2022.1.5	黄玉华	何明荣

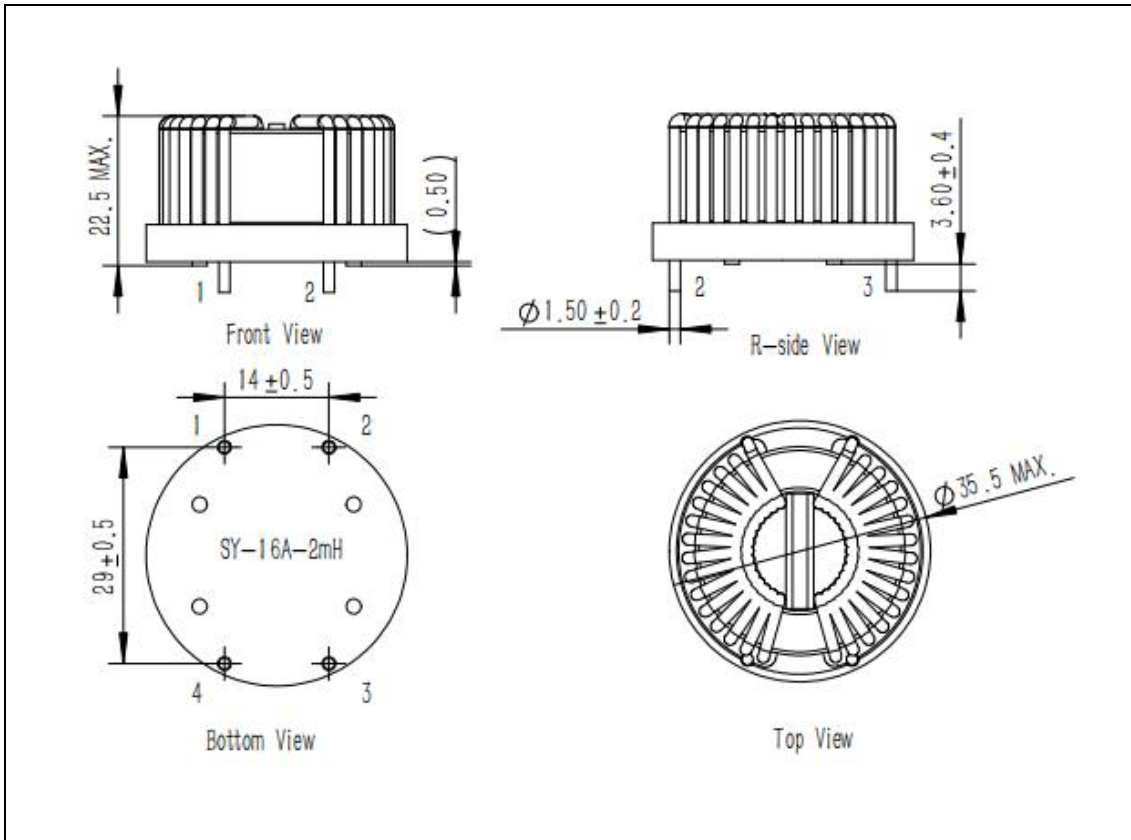
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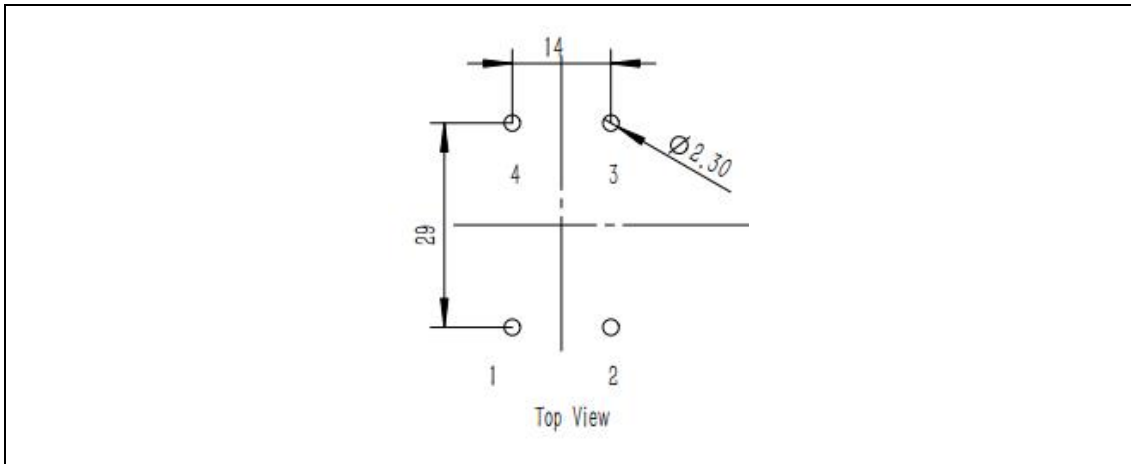


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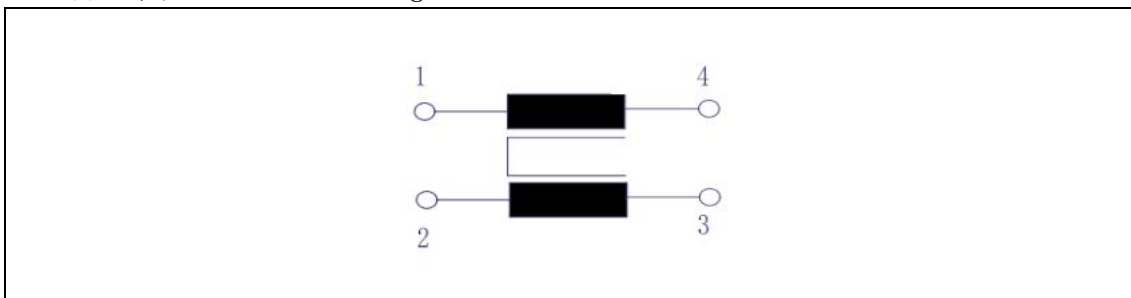
1. 外形尺寸(Outline Dimensions) (单位: mm) (UNIT:mm)



2. 推荐 PCB 安装尺寸 (Suggested PCB Layout) (单位: mm) (UNIT:mm)



3. 原理图 (Schematic diagram)





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4. 绕线参数 (Winding Parameter)

起线-尾线 Start-Finished pin	线径规格 Wire Diameter	圈数 Turns	绕线方式 Winding Condition	胶带圈数 Turns of tape
1-4	MW35C 1.5mm	15	close	\
2-3	MW35C 1.5mm	15	close	\

5. 电气特性 (Electrical characteristics)

项目 Item	测试引脚 Pin NO.	规格 SPEC.	测试条件 Conditions
电感 Inductance	1-4	2mH -35%/+35%	10KHz 0.3V 25°C (LCR 测试仪器内阻 100Ω)
	2-3	2mH min -35%/+35%	
电感偏差 Inductance Deviation	1-4 - 2-3	100uH max.	10KHz 0.3V 25°C (LCR 测试仪器内阻 100Ω)
漏感 Leakage Inductance	1-4	50uH max.	15KHz 0.3V 25°C (LCR 测试仪器内阻 100Ω) PIN2-3 short
直流电阻 DC Resistance	1-4	9mΩ max.	25°C
	2-3	9mΩ max.	
高压测试 Hi-Pot Test	(1-4)-(2-3)	2KV	5S 1mA
	PIN-CORE	1KV	5S 1mA
绝缘电阻 Insulation Resistance	(1-4)-(2-3)	100MΩ min	500VDC
工作温度范围 Operation Temperature		-25°C~125°C	包含线圈发热导致的温度升高 (including coil's temperature rising)



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6. 材料表 (Material list)

编号 NO.	类别 Description	材料 Material	供应商 MANUFACTURER	UL NO.	温度等级 TEMP.
1	Core	T28*16*13C GH7	Guanda or equivalent	/	130°C
2	Case	PA66	NANTONG ORIENT PLASTICS CO LTDt	E332375	130°C
4	Wire	MW35C	Guangdong Jinyan Electrotechnics or equivalent	E238500	200°C
5	Epoxy	Araldite CW 1302	Huntsman Advanced Materials	E96722	130°C
6	Solder	Sncu	Qiandao or equivalent	/	/

7. 产品工艺要求 (Technological requirements):

- 1) 绕线平整，两个绕组圈数相同。The turns of two coils must be same, and the winding shall be flat without overlap.
- 2) 磁芯，隔板和底座点胶固定。Fasten core and bobbin with glue.
- 3) 如客户无要求，产品标签为 SY-16A-2mH 否则按照客户要求 If no rerequirements, marked the inductor with: SY-16A-2mH, else meets customer' s specfication.

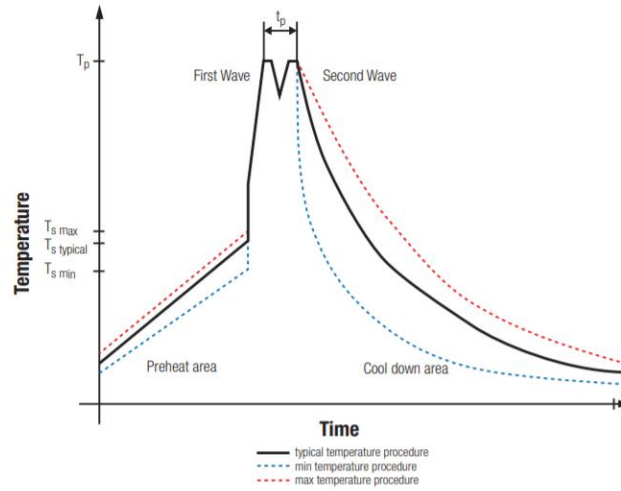
8. 推荐焊接条件 (Recommend Soldering Conditions)

- 1) 焊接方式：波峰焊 (Wave Soldering)
- 2) 典型焊接曲线 (Classification Wave Soldering Profile)



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Classification Wave Soldering Profile:



Classification Wave Soldering Profile:

Profile Feature		Pb-Free Assembly
Preheat Temperature Min	$T_{s \min}$	100 °C
Preheat Temperature Typical	$T_{s \text{ typical}}$	120 °C
Preheat Temperature Max	$T_{s \max}$	130 °C
Preheat Time t_s from $T_{s \min}$ to $T_{s \max}$	t_s	70 seconds
Ramp-up Rate	ΔT	150 °C max.
Peak Temperature	T_p	250 °C - 260 °C
Time of actual peak temperature	t_p	max. 10 seconds max. 5 seconds each wave
Ramp-down Rate, Min		~ 2 K/ second
Ramp-down Rate, Typical		~ 3.5 K/ second
Ramp-down Rate, Max		~ 5 K/ second
Time 25 °C to 25 °C		4 minutes

refer to EN61760-1:2006