



产品承认书 SPECIFICATION FOR APPROVAL

客户名称:

CUSTOMER

我司料号:

OUR PART NO.

XREP1416Y-150M

我司品名:

OUR PART NAME

EP Inductor

送样日期:

DATE SAMPLES

数量:

QUANTITY

制造确认 MANUFACTURER APPROVE

拟制 DRAWN	审核 CHECKED	确认 APPROVED
Hu Fangting	RaoPing	ZhongCuilan

客户确认 CUSTOMER APPROVE

客户名称 CUSTOMER NAME:

客户料号 CUSTOMER P/N:

EP1416Y 15UH 20% 9.5A

规格型号 DESCRIPTION:

检查结果: ☐ 合格 ☐ 不合格

签名及盖章:

INSPECT RESULT ACCEPT REJECT

SIGNATURE AND STAMP

说明 REMARK:

如对本承认书内容有异议请提出或标记发送至我司, 本承认书在未收到异议回复时于本承认书提供一周后生效。

If you have any objection to the contents of this acknowledgment, please raise it or send the mark to us.
The acknowledgment will become effective one week after the acknowledgment is provided in the absence of any objection.

东莞市祥如电子有限公司

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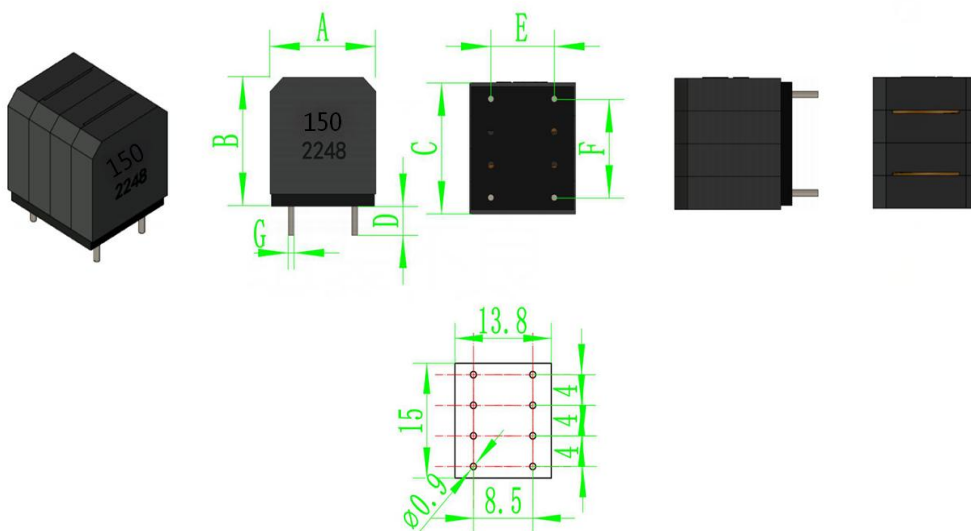
修订记录 Revision record

[illegible]

产品承认书 SPECIFICATION FOR APPROVAL

客户名称 CUSTOMER		日期 DATE	2025/5/29
客户物料编号 CUSTOMER P/N		客户规格型号 DESCRIPTION	EP1416Y 15UH 20% 9.5A
我司物料编号 OUR PART NO	XREP1416Y-150M	我司品名 OUR PART NAME	EP Inductor

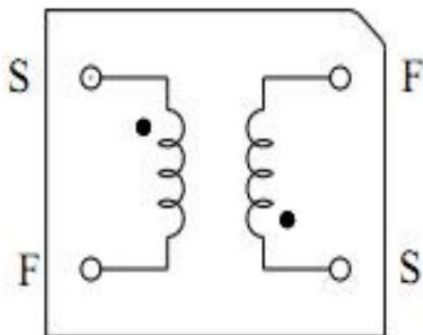
DIMENSION : (UNIT:mm):



NOTE: Laser marking

A	B	C	D	E	F	Printing
14.5±0.5	16.0±0.5	15.5±0.5	3.5±0.5	8.5±0.3	12.0±0.3	150

SCHEMATICS:



ELECTRONICAL CHARACTERISTIC:

ITEM	Spec.	Test Frequency
L1	15uH ±20%	100KHz/0.25V
L2	15uH ±20%	100KHz/0.25V
IDC1	9.5A drop≤25%TYP	100KHz/0.25V
IDC2	9.5A drop≤25%TYP	100KHz/0.25V
DCR1	16.5mΩ MAX	25℃
DCR2	16.5mΩ MAX	25℃

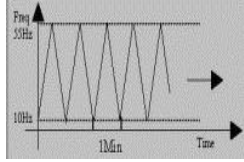
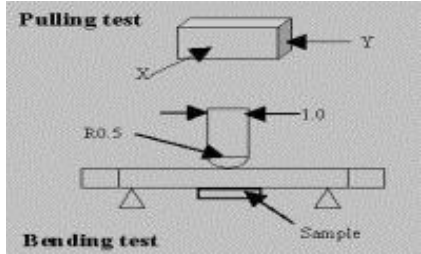
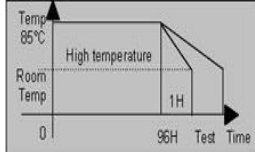
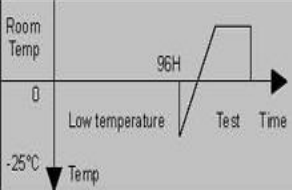
MAIN MATERIALS LIST:

N0.	DESCRIPTION	MATERIAL
1	WIRE	
2	DRCORE	
3	RI CORE	
4	CLIP	
5	EPOXY	
6		



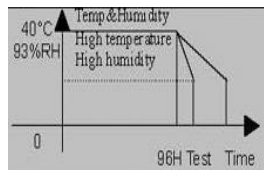
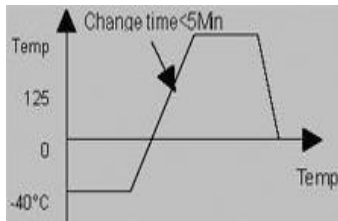
客户名称 CUSTOMER								日期 DATE		2025/5/29						
客户物料编号 CUSTOMER P/N								客户规格型号 DESCRIPTION		EP1416Y 15UH 20% 9.5A						
我司物料编号 OUR PART NO			XREP1416Y-150M					我司品名 OUR PART NAME		EP Inductor						
TESTDATA																
TEST FREQUENCY:		100KHz/0.25V		TEST EQUIPMENT:		UC2910A/UC2517B/VR115联VR7225+VR7225				TEMPERATURE:		25℃		HUMIDITY:		80%
ITEM		L1	L2	DCR1	DCR2	IDC1	IDC2	Drop1	Drop2	A	B	C				
		100KHz/ 0.25V	100KHz/ 0.25V	25℃	25℃	9.5	9.5									
SPEC.		15±20%	15±20%	16.5mΩ	16.5mΩ	15uH 100KHz/ 0.25V	15uH 100KHz/ 0.25V	drop≤ 25%TYP	drop≤ 25%TYP	14.5±0.5	16.0±0.5	15.5±0.5				
1		15.97	15.71	13.67	13.73	13.61	13.41	14.78%	14.64%	14.06	15.58	15.5				
2		15.73	15.31	13.69	13.63	13.31	13.36	15.38%	12.74%	14.06	15.55	15.25				
3		15.35	15.35	13.71	13.59	13.04	13.52	15.05%	11.92%	14.09	15.56	15.26				
4		15.85	15.94	13.62	13.62	14.04	13.42	11.42%	15.81%	14.12	15.49	15.45				
5		15.73	14.24	13.59	13.55	13.61	13.02	13.48%	8.57%	14.07	15.51	15.49				
6		16.04	15.61	13.73	13.51	13.67	13.17	14.78%	15.63%	14.15	15.52	15.41				
7		15.35	15.57	13.61	13.64	13.71	13.56	10.68%	12.91%	14.01	15.56	15.41				
8		15.3	14.8	13.53	13.55	13.8	13.28	9.80%	10.27%	14.09	15.62	15.19				
9		15.35	14.98	13.55	13.22	13.5	13.11	10.68%	15.63%	14.07	15.55	15.42				
10		15.62	14.85	13.26	13.45	13.6	13.56	13.48%	10.27%	14.06	15.54	15.43				
X		15.665	15.31625	13.64375	13.6025	13.59875	13.3425	13.17%	12.81%	14.6	15.58	15.5				
MAX		16.04	15.94	13.73	13.73	14.04	13.56	15.38%	15.81%	14.6	15.58	15.5				
MIN		15.3	14.24	13.53	13.51	13.04	13.02	9.80%	8.57%	14.6	15.58	15.5				

可靠性测试 Reliability Testing

Item (項目)	Required Characteristics (要求)	Test Method/Condition (測試方法)
Solderability test Reference documents: MIL-STD-202G Method 208H IPC J-STD-002B 可焊性測試	Terminals area must have 95% min.Solder coverage 端子必須有95%以上著錫	Dip pads in flux then dip in solder pot at $260\pm 5^{\circ}\text{C}$ for 5 second. Solder:Lead free
Heat endurance of Reflow soldering Reference documents: IPC J-STD-020B 過再流焊測試	1.No case deformation or change in appearance. 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 10\%$	Refer to the next page reflow curve Gothrough 3 timesThe peak temperature : $260\pm 5^{\circ}\text{C}$ 參照下頁回流焊曲線過三次
Vibration test Reference documents: MIL-STD-202G Method 201A 振動測試	1.No case deformation or change in appearance. 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 10\%$	Apply frequency 10~55Hz. 0.75mm amplitude in each of perpendicular direction for 2 hours.(total 6 hours) 用10~55Hz 振動頻率0.75mm振幅沿X,Y,Z方向各振動2小時.(共6小時) 
Drop test Reference documents: MIL-STD-202G Method 203C 落下試驗	1.No case deformation or change in appearance. 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 10\%$	Packaged & Drop down from 1m with 981m/s ² (100G) a ttitude In 1 angle 1 ridges & 2 surfaces orientations. 將產品包裝後從1米高度自然落下至試驗板上
Terminal strength push test Reference documents: JIS C 5321:1997 端子強度試驗	Pulling test: DEFINE: A: sectional area of terminal $A \leq 8 (\text{Sq M})$ force $\geq 5\text{N}$ time:30sec 8(Sq M) <A $\leq 20 (\text{Sq M})$	Bend the testing PCB at middle point,the deflection shall be 2mm 將PCB對中彎折,到達撓度2mm 
Resistance to solvent test Reference documents: IEC 68-2-45:1993 耐溶劑性試驗	No case deformation or change in appearance,or obliteration of marking 無外觀破壞及標記破壞	To dip parts into IPA solvent for $5\pm 0.5\text{Min}$, then drying them atroom temp for 5Min,at last ,to brushing making 10 times. 在IPA溶劑中浸泡 5 ± 0.5 分鐘,室溫下乾燥5分鐘,然後擦拭10次.
High temperature Storage test Reference documents:MIL-STD-202G Method 108A 高溫儲存試驗	1.No case deformation or change in appearance. 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 10\%$	Temperature: $85\pm 2^{\circ}\text{C}$ Time : 96 ± 2 hours Tested not less than 1 hour, nor more than 2 hours at room temperature. 溫度: $85\pm 2^{\circ}\text{C}$,時間: 96 ± 2 小時樣品在室溫下放置1小時,不超2小時間必須測試. 
Low temperature Storage test Referencedocuments: IEC 68-2-1A 6.1 6.2 低溫儲存試驗	1.No case deformation or change in appearance. 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 10\%$	Temperature: $-25\pm 2^{\circ}\text{C}$ Time : 96 ± 2 hours Tested not less than 1 hour, nor more than 2 hours at room temperature. 溫度: $-25\pm 2^{\circ}\text{C}$,時間: 96 ± 2 小時樣品在室溫下放置1小時,不超2小時間必 

可靠性测试

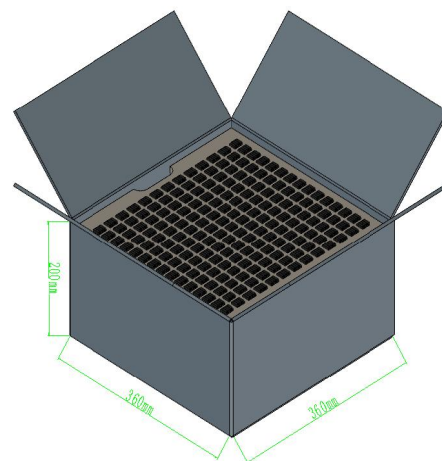
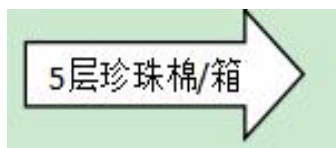
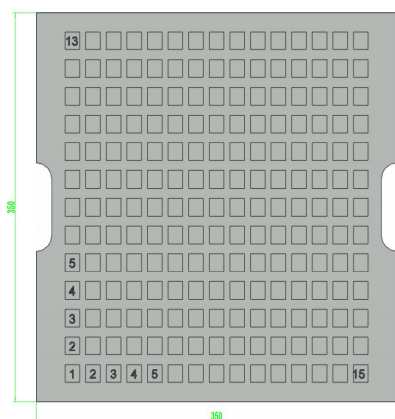
Reliability Testing

Item (項目)	Required Characteristics (要求)	Test Method/Condition (測試方法)
Humidity test Referenced documents: MIL-STD-202G Method 103B 濕度測試	1.No case deformation or change in appearance. 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 10\%$	1. Dry oven at a temperature of $40^\circ \pm 5^\circ\text{C}$ for 24 hours. 2. Measurements At the end of this period 3. Exposure: Temperature: $40 \pm 2^\circ\text{C}$, 
Thermal shock test Reference documents: MIL-STD-202G Method 107G 熱衝擊測試	1.No case deformation or change in appearance. 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 1$	First -40°C for T time, last 125°C T time as 1 cycle. Go through 20 cycles. 從 -40°C 作用 T 分鐘, 然後溫度衝擊到 125°C 作用 T 分鐘, 作為一個循環, 共作用 20 次。 

REEL DIMENSIONS UNIT:mm

Material: Paper, pearl cotton;

0	QTY
PCS/Reel	195
Outer Box	975



NOTE:

- Products PIN down into pearl cotton, 15 PCS in each row, a total of 13 row, 195 PCS product,
- pearl cotton Into the big carton, Each box placed 6 pearl cottons, the remaining space into the filler,
- Cartons will be sealed with tape
- This packing specification for reference, if there is any change, without prior notice.