

产品承认书

SPECIFICATION FOR APPROVAL

版本: REV. A0

客户

Customer : _____

客户料号

CECL-812212-10uH-K

Customer's P/N: _____

品名

AXIAL FIXED INDUCTOR

Description : _____

产品型号

CKL0410-10uH/K-CCA(SP)

SHAANXI P/N : _____

图纸编号

SP-CK056-00031767

Drawing No. : _____

产品编号

Product code. : _____

出图

DRAWING

制表

审核

批准

Prepared By

Checked By

Approved By

万松常

钟健

万芳中

DATE

2015-7-25

承认

CUSTOMER APPROVAL

DATE:

陕西电子科技集团有限公司

SHAANXI ELECTRONIC GROUPTech CO.,LTD

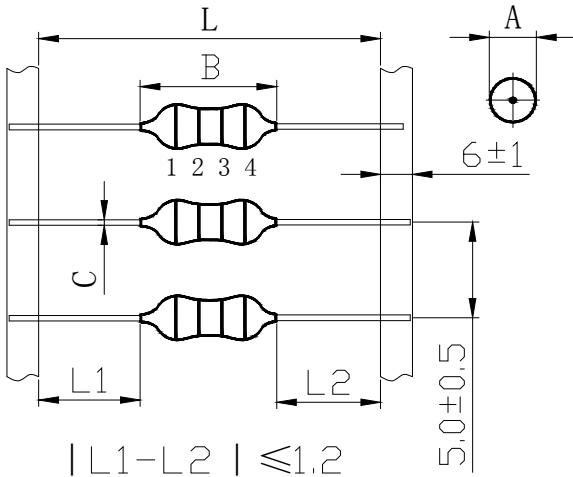
www.inductor-transformer.com sales@inductor-transformer.com

SPECIFICATION FOR APPROVAL

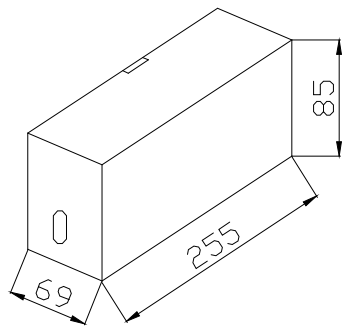
RoHS
COMPLIANT

CUSTOMER		CUSTOMER P/N	CECL-812212-10uH-K	PAGE
DESCRIPTION	AXIAL FIXED INDUCTOR	DRAWING No.	SP-CK056-00031767	1/5
SHAANXI P/N	CKL0410-10uH/K-CCA(SP)	ISSUE DATE	2015-7-25	VERSION
				A0

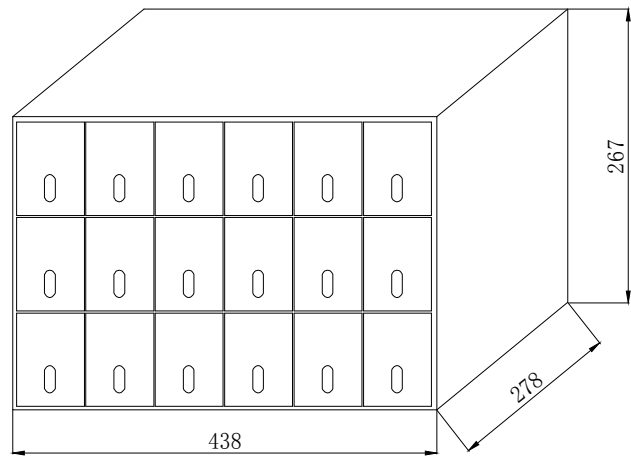
1、 DIMENSION AND PACKING: (UNIT: mm)



A	Ø4.0 Max	1	BROWN
B	9.8 Max	2	BLACK
C	Ø0.65±0.05	3	BLACK
L	52.4±1.5	4	SILVER



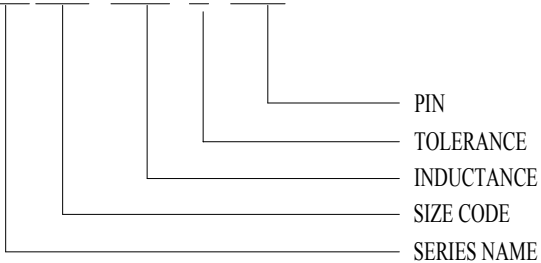
Quantity: 1,500 Pcs/Box



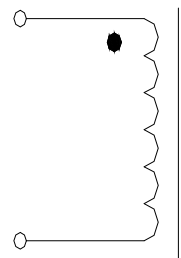
Quantity: 27,000 Pcs/Carton

2、 ORDERING CODE AND SCHEMATIC:

CKL 0410 - 10uH K - CCA (SP)



SCHEMATIC:



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	万松常	钟健	万芳中

SPECIFICATION FOR APPROVAL

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CUSTOMER		CUSTOMER P/N	CECL-812212-10uH-K	PAGE
DESCRIPTION	AXIAL FIXED INDUCTOR	DRAWING No.	SP-CK056-00031767	2/5
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3、ELECTRICAL REQUIREMENTS:

Item	SPEC	Tolerance	Test Frequency	Test Equipment
Inductance	10uH	±10%	7.96MHz(1V)	HM-9481
Q Value	60	Min		
DCR	0.60Ω	Max	at 25℃	CH-502A
SRF	14.0 MHz	Min		HM-9461
Isat.	680mA	Max	at 20℃,10kHz/0.25V	CD1068&CD1320
Irms.	450mA	Max	at 20℃,10kHz/0.25V	CD1068&CD1320

Isat: DC current at which the inductance drops approximate 10% from its value without current;
 Irms: DC current that causes the temperature rise ($\Delta T \leq 20^{\circ}C$) from 20℃ ambient.

※ Operating Temperature: -25℃~+85℃, Storage Temperature: -25℃~+85℃.

4、MATERIAL LIST:

No.	Material	Specification	Supply's name	Remark
1	Core	DRWW3.0*6.0	6005	
2	Wire	Φ0.1mm*29.1Ts Ref (2UEW)	6030	UL No.:E344055
3	Solder	Sn99.3-Cu0.7	6050	
4	Pin	CCA Ø0.64mm	6029	
5	Under-Coating Resin	BUTADIENE RESIN UV	6051	
6	Over-Coating Resin	EPOXY RESIN	6051	
7	Color-Coating Resin	MELAMINE RESIN	6051	
8	Glue	J-600	5163	

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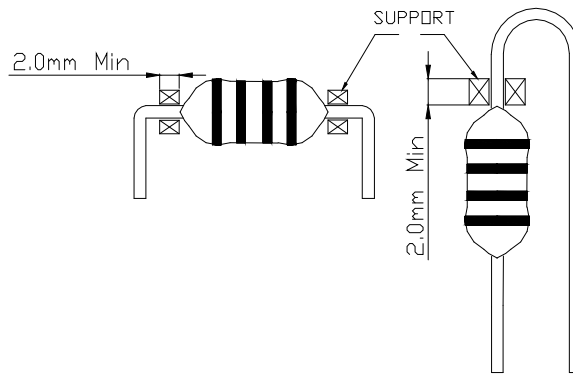
**RoHS
COMPLIANT**

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DESCRIPTION	AXIAL FIXED INDUCTOR	DRAWING No.	SP-CK056-00031767	3/5
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5、WARNING FOR LEAD WIRE FORMING:

This Inductor is using drum type core and wrapping wire at the both ends of the core. An inadequate lead wire forming process may cause open circuit and/or damage the body. Please comply with the following instruction when you bend the lead wire. When you execute a lead wire forming process by yourself.

Please apply supporting jigs as below:



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**RoHS
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TEMPERATURE	25 °C	HUMIDITY	75%	A0

TEST DATA

ELECTRONICAL TEST DATA					REAL DIMENSION (UNIT: mm)							
	L (uH)	DCR (Ω)	Q	SRF (MHz)	A	B	C	L	E	F	G	H
SPEC	10 ±10%	0.60 Max	60 Min	14 Min	Ø4.0 Max	9.8 Max	Ø0.65 ±0.05	52.4 ±1.5				
1	9.77	0.45	107	55.29	3.45	8.81	0.65	52.16				
2	9.74	0.46	107	62.30	3.46	8.62	0.63	52.26				
3	9.88	0.45	105	51.60	3.34	8.81	0.65	52.30				
4	9.79	0.46	105	59.86	3.36	8.64	0.64	52.19				
5	9.86	0.46	105	61.92	3.38	8.76	0.64	52.30				
6	9.75	0.47	107	62.91	3.39	8.62	0.65	52.30				
7	9.74	0.45	110	51.09	3.41	8.77	0.63	52.34				
8	9.91	0.46	110	63.06	3.42	8.86	0.65	52.31				
9	9.84	0.45	111	61.39	3.41	8.74	0.64	52.36				
10	9.86	0.46	102	63.04	3.64	8.77	0.64	52.16				
\bar{X}	9.81	0.46	106.90	59.25	3.43	8.74	0.64	52.27				
R	0.17	0.02	9.00	11.97	0.30	0.24	0.02	0.20				
T.E.	HM9481	CH502A	HM9481	HM9461	DIGITAL CALIPER							

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陕西电子科技集团有限公司 SHAANXI ELECTRONIC GROUPTECH CO.,LTD	ALL JUDGE	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG	
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产品可靠性测试项目

Axial inductor's reliability testing items

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* GENERAL CHARACTERISTICS

STANDARD TESTING CONDITIONS:

UNLESS OTHERWISE SPECIFIED, THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MEASUREMENTS AND TESTS ARE AS FOLLOWS: AMBIENT TEMPERATURE: 15°C ~ 35°C. RELATIVE HUMIDITY: 25% ~ 85%. AIR PRESSURE: 86kPa ~ 106kPa.

版本: A1

NO.	Items项目	Test Methods测试方法	Requirements要求
1	Lead terminal strength 端子强度试验	A static pulling force of 5N in a direction parallel to the lead terminals for 60±5 seconds. 施加推拉力5牛顿, 时间为60s±5s。	No terminal breakage or loosening. 未出现端子损坏或脱落现象
2	Resistance to soldering heat test 耐焊性试验	Fix the samples on a 1.6mm thickness PCB, then dip the sample leads into a soldering bath of 270±5°C up to the PCB for 5±1 seconds. 将产品固定在1.6mm的PCB板上, 放入锡炉中, 温度为270±5°C, 时间为 5±1s。	No significant abnormality in appearance. Deviation relative to initial value: L: Within ±10% Q : Within ±30% 外观无明显损坏。变化范围: 电感值在 ±10%内 Q值在 ±30%内
3	Solder ability test 可焊性试验	Immerse the terminal in flux for 5 seconds. Then dip the terminal into a soldering bath of 245±5°C for 2±0.5 seconds. 端子浸入助焊剂5s, 然后将端子放入锡炉中, 温度为 245±5°C, 时间为2±0.5s。	At least 90% of terminal electrode is covered by new solder. 端子表面有90%以上着锡。
4	Humidity test 湿度试验	Temperature 试验温度: 40°C ± 2°C Humidity 试验湿度: 90% ~ 95%RH Duration 持续时间: 96 ± 4 Hours	No significant abnormality in appearance. Deviation relative to initial value: L: Within ±10% Q : Within ±30% 外观无明显损坏。变化范围: 电感值在 ±10%内 Q值在 ±30%内
5	High temperature stroage test 高温储存试验	Temperature 试验温度: 85°C ± 2°C Duration 持续时间: 96 ± 4 Hours	
6	Low temperature storage test 低温储存试验	Temperature 试验温度: -25°C ± 2°C Time 持续时间: 96 ± 4 Hours	
7	Thermal shock test 冷热冲击试验	First -25±5°C for 30±3 minutes, last 85±5°C 30±3 minutes as 1 cycles. Go through 10 cycles. 首先从-25±5°C作用30±3分钟, 然后温度冲击到85±5°C作用30±3分钟, 作为一个循环, 共做10个循环。	

修订记录	版/次	修订内容	修订年/月/日	修订人
	A1	Deviation relative to initial value.	2013-3-1	A-can

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