

Customer: BS232

SPECIFICATION FOR APPROVAL

Customer P/N	13705-T0X0016R-00		
Description	Coil Wireless Charging		
Drawing No.			
3L P/N	WPT5003-6R3UH-A11B-D24		
Date	20221011	Rev.	XA
Customer	Approved For Customer		
Seller	Drawn	Checked	Approved
	ChenKe	BAKER	HE HONG

Please Return After Approving



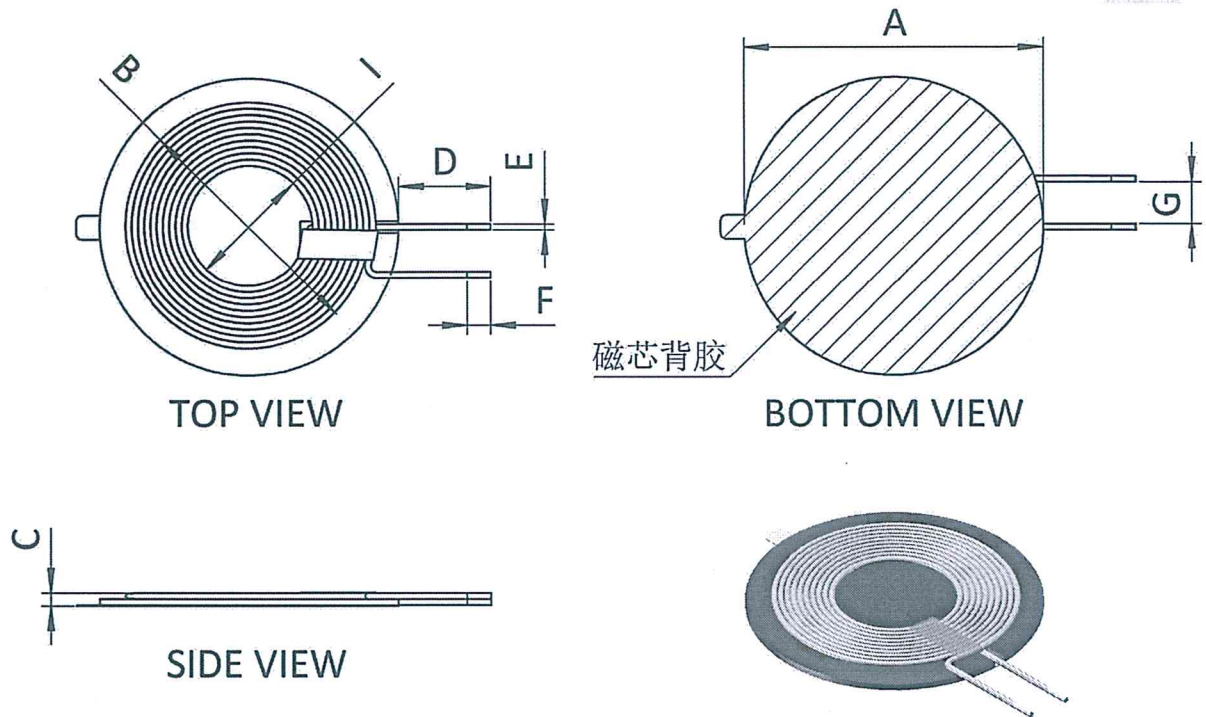
Headquarters : 3L ELECTRONIC (ZHONG SHAN) CORP.

URL : <http://www.3lcoil.com>

ADD : No 6 Industrial Park Nanlang Town Zhong Shan Guangdong,P.R.China

Customer:	BS232	Customer P/N:	13705-T0X0016R-00
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1. Mechanical Dimension(mm) :



ITEM	SPEC(mm)	TYP(mm)	ITEM	SPEC(mm)	TYP(mm)
A	49.5+0.5	49.8	F	3.0+1.5	2.87
B	44.0 MAX	42.8	G	7.0MAX	
C	3.0MAX	2.61	H		
D	24.0+1.0	24.32	I	20.5+1.5	20.6
E	1.6 MAX	1.25	J		

Note:

1. The coil pin needs to be wound with 5mm tape 1.5Ts.
2. Core peeling & breakage: Breakage is acceptable when it meets: length $\leq 5\text{mm}$, width $\leq 1\text{mm}$, depth $\leq 0.5\text{mm}$. Every two breakages within 1mm interval would be regarded as one breakage and three breakages under this standard shall be acceptable on each product.
3. Crack on core: No more than two unobvious cracks which is less than 5mm long and 0.5mm wide are allowable to be on the core. Any crack or coating detachment affecting electromagnetic performance of core or mechanical strength is not acceptable.
4. Core fatness of product surface: The acceptable height difference of uneven surface shall be $\leq 0.03\text{mm}$.
5. Dislocation of PET film : The PET film shall not exceed outward the core more than 0.5mm and not be 1.2mm less than the core inward.

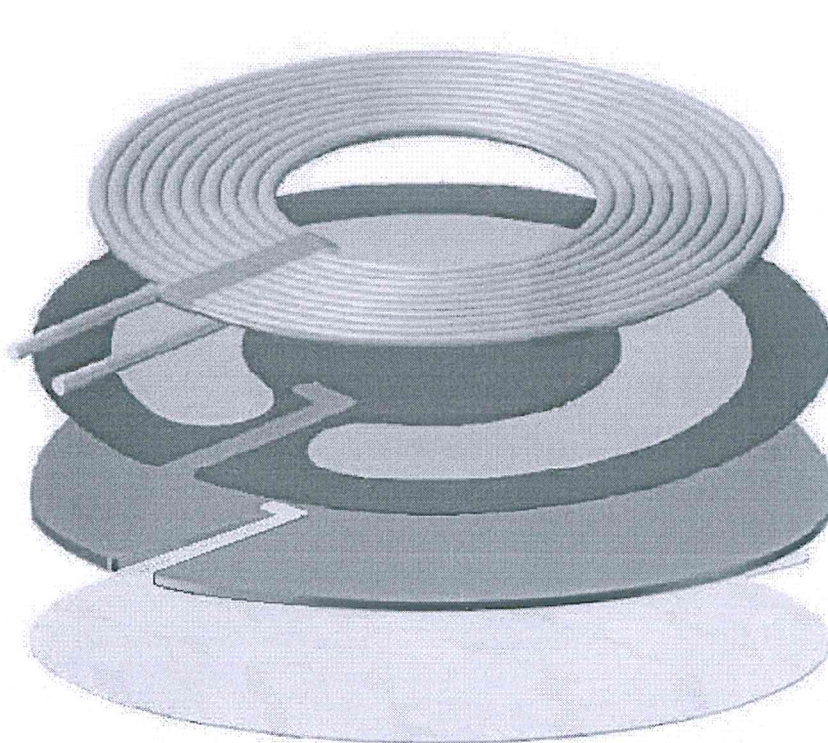
博硕科技
2023.02.11
资料发行章

3L P/N:	WPT5003-6R3UH-A11B-D24	Rev.	XA	Date:	2022/10/11
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Customer:	BS232	Customer P/N:	13705-T0X0016R-00
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6. PET film cleaning: 1) No folding on the PET. 2) No more than 3 bubbles on single side of film while the area of single bubble shall not be more than 2mm.

2. Coil unit Assembly :



4. Electrical Characteristics (at 25°C / RH 65% unless otherwise specified) :

Test Item	Specification	Test Condition	Test Instrument
L	6.5uH±5%	100KHz 1.0V	HP4284A PRECISION LCR METER
DCR	50mΩ MAX		CHENHWA 502 OHM METER
TURNS	10TS ø 0.08X105P		
Ope.Temp	-25 TO 85°C		HC-D3M TEMP. & HUMIDITY CHAMBER
Q	70MIN	100KHz 1.0V	



Not:

The operating temperature is only for the electrical and structural properties of inductance products.

3L P/N:	WPT5003-6R3UH-A11B-D24	Rev.	XA	Date:	2022/10/11
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测试报告



料号	WPT5003-6R3UH-A11B-D24				立讯料号	13705-T0X0016R-00		2022.11.18	
测试环境: 26 ℃ 55 RH									
ITEM	L	DCR	Q	A	B	C			
SPEC	6.5uH±5%	50mΩ MAX	70MIN	49.5+-0.5	44.0 MAX	3.0 MAX			
MAX	6.825	50.00	-	50.00	44.00	3.00			
MIN	6.175	-	70.00	49.00	-	-			
1	6.65	38.1	86.00	49.82	41.02	2.44			
2	6.61	36.6	86.00	49.77	40.96	2.34			
3	6.66	38.1	84.00	49.37	40.79	2.31			
4	6.63	38.7	87.00	49.58	40.93	2.42			
5	6.65	36.5	86.00	49.69	40.86	2.44			
6	6.69	39.5	85.00	49.83	40.95	2.45			
7	6.64	36.5	89.00	49.57	40.94	2.37			
8	6.61	38.8	85.00	49.66	40.98	2.35			
9	6.62	36.9	86.00	49.71	40.91	2.39			
10	6.65	36.5	85.00	49.73	40.89	2.36			
X	6.7	39.5	89.000	49.83	41.02	2.45			
R	6.6	37.6	85.900	49.67	40.92	2.39			
JUD	OK	OK		OK	OK	OK			
项目		测试条件							测试设备
尺寸							Digital Caliper		
备注							检查	制做	
							BAKER	ChenKe	

表单编号: FRM-FENG-626 2.0版



Customer:	BS232	Customer P/N:	13705-T0X0016R-00
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5. Material list :

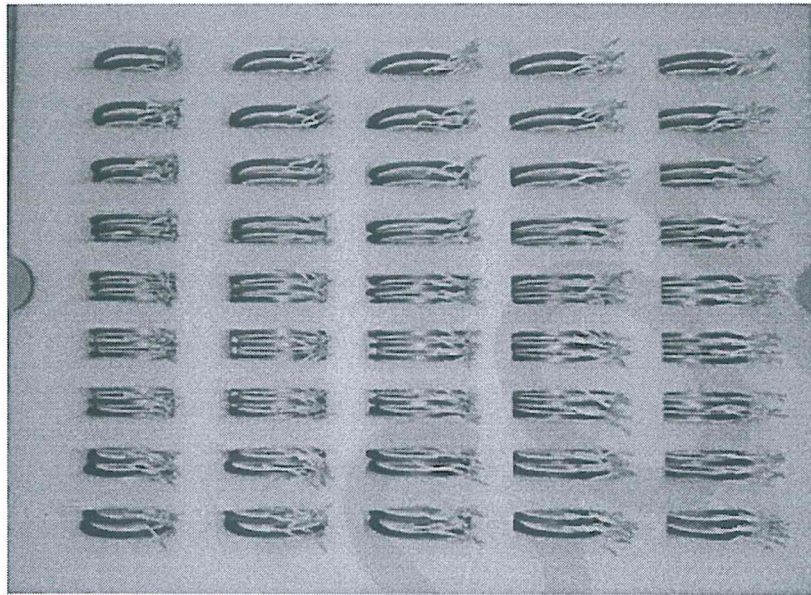
No.	Material	Description	Manufacturer	UL No.& Rating
1	CORE	49.5X1.0 BP40/95-G (PET film is required on both sides)	KRY-SCN /BOCHEN / EQUATES	N/A
2	WIRE	Ø 0.08X105P 2UEW-F/E UDTG/155°C	HUAYE / WEIHAN / EQUATES	E345710 155°C
3	GLUE	S133-4C	E-Linking // EQUATES	N/A
4	SOLDER	KD100 Sn99.9	THOUSAND	N/A
5	TAPE	H 201A	TAIHU / EQUATES	E229667
6	PET	49.5X0.1 PET	High temperature polyester film	N/A
7				



3L P/N:	WPT5003-6R3UH-A11B-D24	Rev.	XA	Date:	2022/10/11
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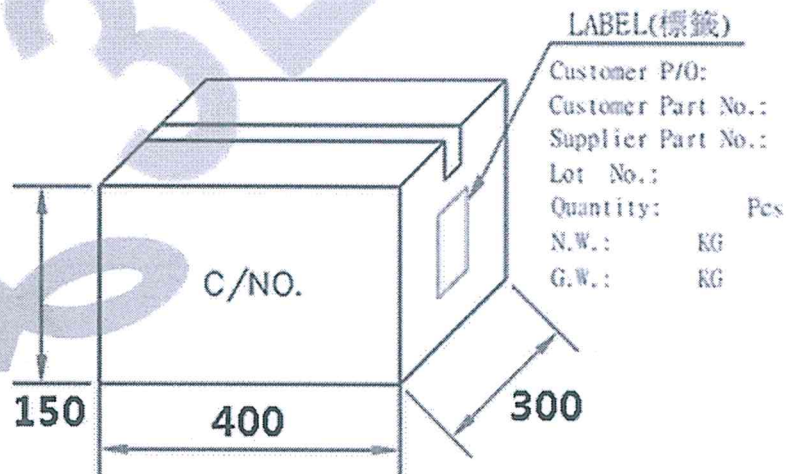
Customer:	BS232	Customer P/N:	13705-T0X0016R-00
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7.1 INSIDE PACKAGING:



Each box: pcs

7.2 OUTSIDE PACKAGING



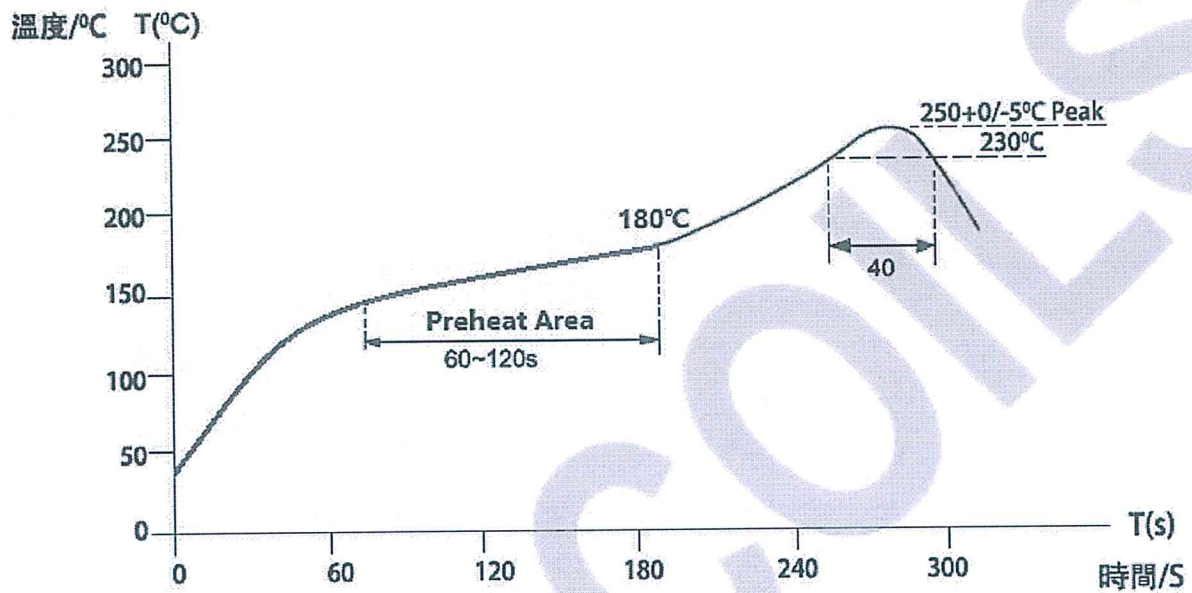
Outer carton: pcs

3L P/N:	WPT5003-6R3UH-A11B-D24	Rev.	XA	Date:	2022/10/11
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Customer:	BS232	Customer P/N:	13705-T0X0016R-00
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Appendix 1: Lead-free the recommended reflow condition (SMT Type)

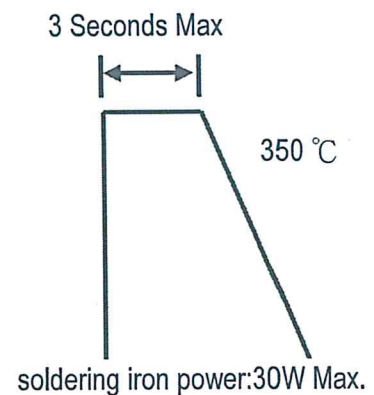


Notes:

The recommended reflow conditions as graph, is set according to our soldering equipment, due to various manufacturers may have different reflow soldering equipments, products, process conditions, set methods and so on, when setting the reflow conditions, Please adjust and confirm according to users' environment/equipments, Number of reflow soldering : No more than 2 times

Appendix 2: Soldering Iron (Rework)

1. Use a soldering iron to solder inductors by hand, times does not exceed 350 degrees 3 times.
2. When soldering iron welding, please try to avoid contacting the inductor itself. (definitely do not contact the wire)
3. To solder inductors by soldering iron is not recommended.



3L P/N :	WPT5003-6R3UH-A11B-D24	Rev.	XA	Date:	2022/10/11
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