QS9000 & ISO14001 & TS16949 **CHILISIN ELECTRONICS CORP.**

Lead-Free & RoHs Compliance!!

SPECIFICATION FOR APPROVAL

CUSTOMER : ELTECH

CUSTOMER P/N :

OUR DWG No : **CE1-3A1195**

QUANTITY : **x** **Pcs.** **DATE** : **2013/11/6**

ITEM : **SL0810T-471K-N**

SPECIFICATION ACCEPTED BY:	
COMPONENT ENGINEER	
ELECTRICAL ENGINEER	
MECHANICAL ENGINEER	
APPROVED	
REJECTED	

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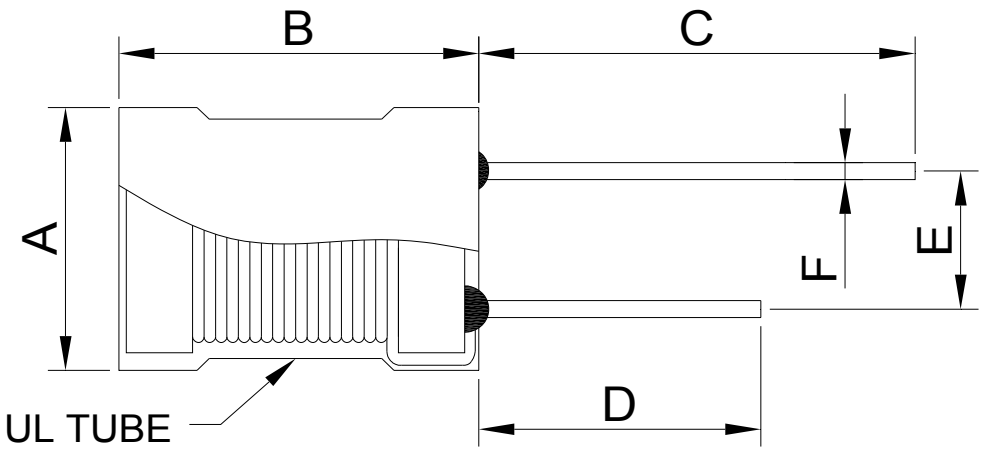
DRAWN BY	Jiusheng	CHECKED BY	Liukan	APPROVED BY	Tangshan	QRA BY	

QS9000 & ISO14001 & TS16949 **CHILISIN ELECTRONICS CORP.**

SPECIFICATIONFOR APPROVAL

CUSTOMER	ELTECH	CLS DWG. NO. CE1-3A1195	Rev A
CUSTOMER'S PART NO/DWG NO.	DESCRIPTION **SL0810T-471K-N**	DATE 2013/11/6	

(1)MECHANICAL ASSEMBLY

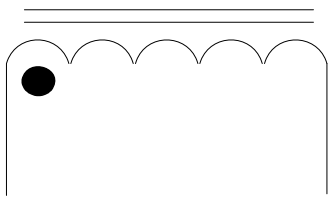


A	8.7±0.5	m/m
B	12.0±1.0	m/m
C	25.0±5.0	m/m
D	18.0±5.0	m/m
E	5.0±0.8	m/m
F	0.65Ref	m/m
G		m/m
H		m/m
I		m/m
J		m/m

(2)ELECTRICAL REQUIREMENTS

L	470.0±10% uH	TEST FREQUENCY	0.796MHZ	1V
RDC	1.3max Ω	TEST FREQUENCY		
L(at 0.5A)	L drop 10%max uH	TEST FREQUENCY	1KHZ	1V
Q	20.0 REF	TEST FREQUENCY	0.796MHZ	1V
SRF	1.8min MHZ	TEST FREQUENCY		
RATED CURRENT				

(3)SCHEMATIC



(4)TEST INSTRUMENTS

*CH502BC (RDC)
*HP4284A+42841A (L,IDC)

*Storage Temperature: Under ２５℃ ,Humidity < 75% RH(6 Month)
* Operating temperature -25℃ to +85℃

NOTE:

*Solder:Sn99.3Cu0.7
*EPOXY:FK661-9
*TUBE:9φ

		APPROVED BY Tangshan
		CHECKED BY Liukan
		DRAWN BY Jiusheng
VERSION	No.1	

QS9000 & ISO14001 & TS16949 CHILISIN ELECTRONICS CORP.

TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER						CLS DWG. NO.		Rev
ELTECH						CE1-3A1195		A
CUSTOMER'S PART NO./DWG.NO			DESCRIPTION			DATE		
			SL0810T-471K-N			2013/11/6		
						QUANTITY x PCS.		
MEAS. ITEM	L uH	RDC Ω	L(at 0.5A) uH	Q	SRF MHZ			
SPEC CUSTOMER SUGGEST	470.0±10%	1.3max	L drop 10%max	20.0 REF	1.8min			
TEST FREQ.	0.796MHZ 1V		1KHZ 1V	0.796MHZ 1V				
1	468.60	0.66	466.00	22.00	2.20			
2	464.30	0.65	472.00	23.00	2.20			
3	466.00	0.65	472.00	24.00	2.20			
4	465.70	0.66	474.00	23.00	2.10			
5	466.90	0.65	474.00	21.00	2.20			
6	468.80	0.65	469.00	24.00	2.10			
7	466.20	0.66	473.00	23.00	2.20			
8	467.20	0.65	472.00	22.00	2.10			
9	470.10	0.65	472.00	19.00	2.20			
10	462.70	0.65	470.00	23.00	2.30			
11								
12								
13								
14								
15								
$\overline{X}$	466.65	0.65	471.40	22.40	2.18			
R	7.40	0.01	8.00	5.00	0.20			
CUSTOMER SAMPLE								

TEST CONDITION: TEMP. 25 ℃ R.H. 65%	APPROVED BY Tangshan
	CHECKED BY Liukan
	DRAWN BY Jiusheng

QS9000 & ISO14001 & TS16949 **CHILISIN ELECTRONICS CORP.**

TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER						CLS DWG. NO.		Rev
ELTECH						CE1-3A1195		A
CUSTOMER'S PART NO./DWG.NO		DESCRIPTION				DATE		
		SL0810T-471K-N				2013/11/6		
						QUANTITY x PCS.		
MEAS. ITEM	A m/m	B m/m	C m/m	D m/m	E m/m	F m/m		
SPEC CUSTOMER SUGGEST	8.7±0.5	12.0±1.0	25.0±5.0	18.0±5.0	5.0±0.8	0.65Ref		
TEST FREQ.								
1	8.87	11.42	25.33	18.38	5.03	0.64		
2	8.89	11.30	25.49	18.33	5.08	0.65		
3	8.91	11.50	25.22	18.42	4.90	0.65		
4	9.03	11.38	25.39	18.24	5.17	0.64		
5	8.89	11.34	25.39	18.28	4.93	0.65		
6	8.78	11.30	25.25	18.35	5.05	0.65		
7	8.79	11.48	25.71	18.31	4.86	0.65		
8	8.86	11.57	25.15	18.35	4.87	0.65		
9	8.82	11.48	25.80	18.24	4.89	0.65		
10	8.88	11.59	25.39	18.41	5.15	0.65		
11								
12								
13								
14								
15								
$\overline{X}$	8.87	11.44	25.41	18.33	4.99	0.65		
R	0.25	0.29	0.65	0.18	0.31	0.01		
CUSTOMER SAMPLE								

TEST CONDITION: TEMP. 25 ℃ R.H. 65%	APPROVED BY Tangshan
	CHECKED BY Liukan
	DRAWN BY Jiusheng

Rev
A

5. MATERIAL LIST :

ITEM	PART	DESCRIPTION	TEMP	SUPPLIERS	UL NO.
1	WIRE	2SFBW	155℃	JUNG SHING OR EQUIV	E174837
2	CORE	FERRITE		CHENZHOU OR EQUIV	
3	PIN	0.65φ		MINGTONG OR EQUIV	
4	Solder	Sn99.3Cu0.7		SHENYUAN OR EQUIV	
5	EPOXY	FK661-9		QIFU OR EQUIV	
6	TUBE	9φ		XINGQI OR EQUIV	

DRAWN BY	CHECKED BY	APPROVED BY	CUSTOMER : ELTECH	DATE	2013/11/6
Jiusheng	Liukan	Tangshan	RART NO :	REV	
			ISSUE NO : SL0810T-471K-N	RACE	

1-1 Mechanical Performance

No	Item	Specification	Test Method
1-1-1	Vibration	Appearance: No damage Z change: within±20% RDC: within specification	Test device shall be soldered on the substrate Oscillation Frequency: 10 to 55 to 10Hz for 1min Amplitude: 1.5mm Time: 2hrs for each axis (X, Y & Z), total 6hrs

1-2 Environmental Performance

<table>
<tr><th>No</th><th>Item</th><th>Specification</th><th>Test Method</th></tr>
<tr><td>1-2-1</td><td>Temperature Cycle</td><td rowspan="4">Appearance: No damage
Z change: within±20%
RDC: within specification</td><td>One cycle:
<table>
<tr><th>Step</th><th>Temperature (℃)</th><th>Time (min)</th></tr>
<tr><td>1</td><td>-25±3</td><td>30</td></tr>
<tr><td>2</td><td>25±2</td><td>3</td></tr>
<tr><td>3</td><td>85±3</td><td>30</td></tr>
<tr><td>4</td><td>25±2</td><td>3</td></tr>
</table>
Total: 100cycles
Measured after exposure in the room condition for 24hrs</td></tr>
<tr><td>1-2-2</td><td>Humidity Resistance</td><td>Temperature: 40±2℃
Relative Humidity: 90 ~ 95%
Time: 1000hrs
Measured after exposure in the room condition for 24hrs</td></tr>
<tr><td>1-2-3</td><td>Heat Life</td><td>Temperature: 85±3℃
Relative Humidity: 0%
Applied Current: Rated Current
Time: 1000hrs
Measured after exposure in the room condition for 24hrs</td></tr>
<tr><td>1-2-4</td><td>Cold Resistance</td><td>Temperature: -25±3℃
Relative Humidity: 0%
Time: 1000hrs
Measured after exposure in the room condition for 24hrs</td></tr>
</table>

Underwriters Laboratories Inc.®

OBMW2
Magnet Wire - Component

September 8, 2000

E174837

JUNG SHING WIRE CO LTD
231 CHUNG CHENG RD, SEC 3 JEN-TEH HSIANG, TAINAN
HSIEN TAIWAN

Mtl Dsg	Mark Dsg	Coat Typ BC	Coat Typ OC	ANSI Type	Temp Class
AIW	—	Polyamideimide	—	MW81-C	220
CFUEWB	—	Polyurethane	—	MW75C	130
EIAIW	—	Polyesterimide	Polyamideimide	MW35C	200
EILOCKY	—	Polyesterimide	Polyamide	—	180
EILOCKW	—	Polyesterimide	Modified Epoxy	—	200
EIW	—	Polyesterimide	—	—	220
EIW-2	—	Polyesterimide	—	MW74-C	200
FL.EILOCKY	—	Modified Polyester	Polyamide	—	155
LSFFW	—	Polyurethane	—	MW79-C	155
LSUEW	—	Polyurethane	—	—	130
PEW	—	Polyester	—	—	155
PEY	—	Polyester	Nylon	MW24-C	155
SF.FLW	—	Modified Polyester	—	MW26C	155
SF.EIW	—	Polyesterimide	—	MW77C	180
SF.BY@	—	Modified Polyester	Nylon	MW27-C	155
SF.FLY@	—	Modified Polyester	Nylon	MW27-C	155
SF.BLOCKBS	—	Modified Polyester	Modified Polyamide	—	155
SF.EILOCKY#	—	Polyesterimide	Polyamide	—	180
SF.EILOCKBS	—	Polyesterimide	Modified Polyamide	—	180
SF.BW@	—	Modified Polyester	—	MW26C	155
SFFW	—	Polyurethane		MW79	155

A not-for-profit organization dedicated to public safety and committed to quality service

Mtl Dsg	Mark Dsg	Coat Typ BC	Coat Typ OC	ANSI Type	Temp Class
SFFY	—	Polyurethane	Polyamide	MW80C	155
UEW-1	—	Polyurethane	—	MW2-C	105
UEW-2	—	Polyurethane	—	—	130
UEW-4	—	Polyurethane	—	MW75C	130
UEY	—	Polyurethane	Nylon	MW28-C	130
UEY-2	—	Polyurethane	Polyamide	MW28-C	130

@-May be suffixed by LZ; # - May be suffixed by LZ, EL or LZL.
LZ - Signifies magnet wires twisted together; EL - signifies base coated magnet wire laid parallel with top coat applied overall; LZL - signifies base coated magnet wire twisted together and covered with top coat overall.

Marking: Company name or trademarks [illegible] or [illegible], material designation or marked designation on packaged or reel, and Recognized Component Mark.

See General Information Preceding These Recognitions
For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.