



QS9000 & ISO14001 & TS16949 CHILISIN ELECTRONICS CORP.

Halogen Free & RoHs Compliance

SPECIFICATION FOR APPROVAL

CUSTOMER : Eltech

CUSTOMER P/N : _____

OUR DWG No : CE1-490223

QUANTITY : x Pcs. DATE : 2014/9/17

ITEM : SL0810T-222K-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	
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SPECIFICATION FOR APPROVAL

CUSTOMER			Eitech		CLS DWG. NO. CE1-490223	Rev B
CUSTOMER'S PART NO/DWG NO.		DESCRIPTION			DATE	
		SL0810T-222K-N			2014/9/17	
(1)MECHANICAL ASSEMBLY					A	8.7±0.5 m/m
					B	12.0±1.0 m/m
					C	3.0±0.5 m/m
					D	5.0±0.8 m/m
					E	0.65±0.1 m/m
					Marking	222K
(2)ELECTRICAL REQUIREMENTS					(3)SCHEMATIC	
L	2.2±10%	mH	TEST FREQUENCY	252KHZ	1V	
RDC	8.4max	Ω				
IDC	0.11Max	A	TEST FREQUENCY	252KHZ	1V	
Q	40.0min		TEST FREQUENCY	252KHZ	1V	
SRF	0.55min	MHZ				
RATED CURRENT						
(4)TEST INSTRUMENTS						
<p>*16502 (RDC) *HP4284A+42841A (L,IDC) *HP4284A(Q) *HP4285A(Q,SRF) *Storage Temperature: Under 25 °C ,Humidity < 75% RH(6 Month) * Operating temperature -25°C to +85°C</p>						
NOTE: *Solder:Sn99.3Cu0.7 *EPOXY:FK661-9 *TUBE: 9 φ Black UL *IDC:L drop 10%max *The current shall not exceed the specified one when using this part.					APPROVED BY	
					Tangshan	
					CHECKED BY	
					Liukan	
					DRAWN BY	
					Jiusheng	



TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER						CLS DWG. NO.	Rev
Eltech						CE1-490223	B
CUSTOMER'S PART NO./DWG.NO.			DESCRIPTION			DATE	
			SL0810T-222K-N			2014/9/17	
						QUANTITY	PCS.
MEAS. ITEM	L mH	RDC Ω	IDC A	Q	SRF MHZ		
<small>SPEC</small> CUSTOMER SUGGEST	2.2±10%	8.4max	0.11Max	40.0min	0.55min		
TEST FREQ.	252KHZ 1V		252KHZ 1V	252KHZ 1V			
1	2.11	5.14	OK	58.00	0.85		
2	2.10	5.07	OK	57.00	0.89		
3	2.11	5.06	OK	61.00	0.87		
4	2.10	5.02	OK	60.00	0.85		
5	2.12	5.03	OK	67.00	0.85		
6	2.10	5.07	OK	56.00	0.83		
7	2.11	5.11	OK	57.00	0.85		
8	2.10	5.07	OK	63.00	0.86		
9	2.11	5.05	OK	62.00	0.88		
10	2.11	5.01	OK	64.00	0.88		
11							
12							
13							
14							
15							
X	2.11	5.06		60.50	0.86		
R	0.02	0.13		11.00	0.06		
CUSTOMER SAMPLE							
TEST CONDITION: TEMP. 25 °C R.H. 65%						APPROVED BY	
						Tangshan	
						CHECKED BY	
						Liukan	
						DRAWN BY	
						Jiusheng	



TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER						CLS DWG. NO.	Rev
Eltech						CE1-490223	B
CUSTOMER'S PART NO./DWG.NO.			DESCRIPTION			DATE	
			SL0810T-222K-N			2014/9/17	
						QUANTITY	PCS.
MEAS. ITEM		A m/m	B m/m	C m/m	D m/m	E m/m	
SPEC	CUSTOMER SUGGEST	8.7±0.5	12.0±1.0	3.0±0.5	5.0±0.8	0.65±0.1	
	TEST FREQ.						
	1	8.69	11.77	3.15	4.83	0.63	
	2	8.69	11.55	3.14	4.90	0.64	
	3	8.73	11.71	3.30	5.07	0.64	
	4	8.68	11.53	3.05	4.87	0.65	
	5	8.71	11.68	3.00	5.01	0.65	
	6	8.72	11.78	3.06	4.91	0.64	
	7	8.66	11.74	3.19	4.90	0.64	
	8	8.68	11.57	3.04	5.09	0.64	
	9	8.72	11.63	3.17	5.07	0.65	
	10	8.66	11.75	3.09	5.05	0.64	
	11						
	12						
	13						
	14						
	15						
	\bar{X}	8.69	11.67	3.12	4.97	0.64	
	R	0.07	0.25	0.30	0.26	0.02	
CUSTOMER SAMPLE							
TEST CONDITION: TEMP. 25 °C R.H. 65%						APPROVED BY	
						Tangshan	
						CHECKED BY	
						Liukan	
						DRAWN BY	
						Jiusheng	

Rev
B

5. MATERIAL LIST :

ITEM	PART	DESCRIPTION	TEMP	SUPPLIERS	UL NO.
1	WIRE	2SFBW	155°C	JUNG SHING OR EQUIV	E174837
2	CORE	FERRITE B4.5F6P5(Slotting)		CHENZHOU OR EQUIV	
3	PIN	0.65φ Cp Wire		MINGTONG OR EQUIV	
4	Solder	Sn99.3Cu0.7		QUANJIA OR EQUIV	
5	EPOXY	FK661-9		QIFU OR EQUIV	
6	TUBE	9φ Black UL		XINGQI OR EQUIV	

DRAWN BY	CHECKED BY	APPROVED BY	CUSTOMER :	Eltech	DATE	2014/9/17
Jiusheng	Liukan	Tangshan	PART NO :		REV	B
			ISSUE NO :	SL0810T-222K-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

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

WIRE



OBMW2
Magnet Wire - Component

September 8, 2000

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

E174837

Mtl Dsg	Mark Dsg	Coat Typ		ANSI Type	Temp Class
		BC	OC		
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
SFFLW	—	Modified Polyester	—	MW26C	155
SFEIW	—	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

287806002

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committed to quality service

Mtl Dsg	Mark Dsg	Coat Typ		ANSI Type	Temp Class
		BC	OC		
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 榮星電線, 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.

287806002

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OBMW2/E174837
September 8, 2000