



ISO9001 & 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 : SL1013C-222K-N

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

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**DRAWN
BY**

Jiusheng

**CHECKED
BY**

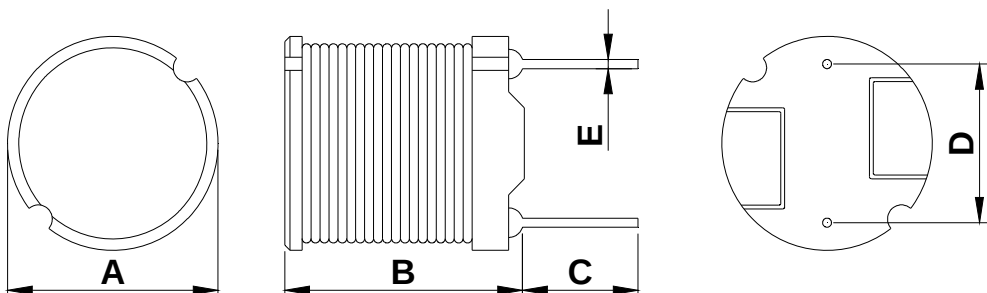
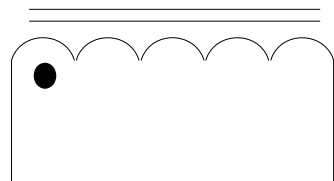
Liukan

**APPROVED
BY**

Tangshan

**QRA
BY**

SPECIFICATION FOR APPROVAL

CUSTOMER				ELTECH				CLS DWG. NO.		Rev A																									
CUSTOMER'S PART NO/DWG NO.				DESCRIPTION SL1013C-222K-N				DATE 2013/11/6																											
(1)MECHANICAL ASSEMBLY 								A	10.0±0.5	m/m																									
								B	14.4max	m/m																									
								C	5.0±1.0	m/m																									
								D	5.0±0.3	m/m																									
								E	0.8±0.05	m/m																									
								F		m/m																									
								G		m/m																									
								H		m/m																									
								I		m/m																									
								J		m/m																									
(2)ELECTRICAL REQUIREMENTS <table><tr><td>L</td><td>2.2±10%</td><td>mH</td><td>TEST FREQUENCY</td><td>1KHZ</td><td>1V</td></tr><tr><td>RDC</td><td>3.2max</td><td>Ω</td><td>TEST FREQUENCY</td><td></td><td></td></tr><tr><td>L(at 0.32A)</td><td>L drop 10%max</td><td>mH</td><td>TEST FREQUENCY</td><td>1KHZ</td><td>1V</td></tr><tr><td>Irms</td><td>0.32A Max</td><td>℃</td><td>TEST FREQUENCY</td><td colspan="2">△≤40℃</td></tr></table>								L	2.2±10%	mH	TEST FREQUENCY	1KHZ	1V	RDC	3.2max	Ω	TEST FREQUENCY			L(at 0.32A)	L drop 10%max	mH	TEST FREQUENCY	1KHZ	1V	Irms	0.32A Max	℃	TEST FREQUENCY	△≤40℃		(3)SCHEMATIC 			
L	2.2±10%	mH	TEST FREQUENCY	1KHZ	1V																														
RDC	3.2max	Ω	TEST FREQUENCY																																
L(at 0.32A)	L drop 10%max	mH	TEST FREQUENCY	1KHZ	1V																														
Irms	0.32A Max	℃	TEST FREQUENCY	△≤40℃																															
RATED CURRENT																																			
(4)TEST INSTRUMENTS *HP4284A+HP42841A (L,IDC) *CH502BC (RDC) *Storage Temperature: Under 25℃ ,Humidity < 75% RH(6 Month) * Operating temperature -25℃ to +85℃																																			
NOTE: *Pin:8φ *Solder:Sn99.3Cu0.7								APPROVED BY Tangshan																											
								CHECKED BY Liukan																											
								DRAWN BY																											
				VERSION				No.1																											
								Jiusheng																											



ISO9001 & ISO14001 & TS16949 **CHILISIN ELECTRONICS CORP.**

TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER						CLS DWG. NO.			Rev					
ELTECH									A					
CUSTOMER'S PART NO./DWG.NO.				DESCRIPTION		DATE								
				SL1013C-222K-N		2013/11/6								
						QUANTITY			PCS.					
MEAS. ITEM		L mH	RDC Ω	L(at 0.32A) mH	Irms ℃									
SPEC	CUSTOMER													
	SUGGEST	2.2±10%	3.2max	L drop 10%max	0.32A Max									
TEST FREQ.		1KHZ 1V		1KHZ 1V	Δ≤40℃									
1		2.18	2.33	2.20	OK									
2		2.17	2.34	2.18	OK									
3		2.17	2.33	2.18	OK									
4		2.17	2.33	2.19	OK									
5		2.16	2.34	2.17	OK									
6		2.17	2.33	2.20	OK									
7		2.16	2.33	2.19	OK									
8		2.17	2.35	2.18	OK									
9		2.18	2.33	2.17	OK									
10		2.17	2.33	2.19	OK									
11														
12														
13														
14														
15														
X		2.17	2.33	2.19										
R		0.02	0.02	0.03										
CUSTOMER SAMPLE														
TEST CONDITION:						TEMP.			25 °C R.H.			65%		
						APPROVED BY								
						Tangshan								
						CHECKED BY								
						Liukan								
						DRAWN BY								
						Jiusheng								



ISO9001 & ISO14001 & TS16949 **CHILISIN ELECTRONICS CORP.**

TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER ELTECH							CLS DWG. NO.	Rev A	
CUSTOMER'S PART NO./DWG.NO.			DESCRIPTION SL1013C-222K-N				DATE 2013/11/6		
							QUANTITY	PCS.	
MEAS. ITEM	A mm	B mm	C mm	D mm	E mm				
SPEC CUSTOMER SUGGEST	10.0±0.5	14.4max	5.0±1.0	5.0±0.3	0.8±0.05				
TEST FREQ.									
1	10.03	14.18	5.18	5.02	0.81				
2	10.05	14.10	4.98	5.05	0.81				
3	10.08	14.13	4.93	5.08	0.82				
4	10.04	14.17	5.01	4.93	0.80				
5	10.10	14.09	4.90	4.98	0.79				
6	10.05	14.08	5.09	4.94	0.81				
7	10.08	14.10	5.02	4.95	0.82				
8	10.07	14.13	5.18	5.09	0.81				
9	10.02	14.18	5.12	5.00	0.81				
10	10.08	14.12	5.03	5.07	0.80				
11									
12									
13									
14									
15									
X	10.06	14.13	5.04	5.01	0.81				
R	0.08	0.10	0.28	0.16	0.03				
CUSTOMER SAMPLE									
TEST CONDITION: TEMP. 25 °C 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°C	JUNG SHING OR EQUIV	E174837
2	CORE	FERRITE		CHENZHOUE OR EQUIV	
3	EPOXY	FK661-500U		QIFU OR EQUIV	
4	Pin	0.8 φ		BEIQIXIN OR EQUIV	
5	Solder	Sn99.3Cu0.7		SHENYUAN OR EQUIV	

DRAWN BY	CHECKED BY	APPROVED BY	CUSTOMER : ELTECH	DATE	2013/11/6
Jiusheng	Liukan	Tangshan	PART NO :	REV	
			ISSUE NO : SL1013C-222K-N	RACE	



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1-1 Mechanical Performance

No	Item	Specification	Test Method
1-1-1	Vibration	Appearance: No damage Z change: within $\pm 20\%$ 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><tr><td>Step</td><td>Temperature (°C)</td><td>Time (min)</td></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>	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													
Total: 100cycles																		
Measured after exposure in the room condition for 24hrs																		
1-2-2	Humidity Resistance		Temperature: 40±2℃ Relative Humidity: 90 ~ 95% Time: 1000hrs Measured after exposure in the room condition for 24hrs															
1-2-3	Heat Life		Temperature: 85±3℃ 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℃ Relative Humidity: 0% Time: 1000hrs Measured after exposure in the room condition for 24hrs															