



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 : 2013/11/7

ITEM : SL0810T-102K-N

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

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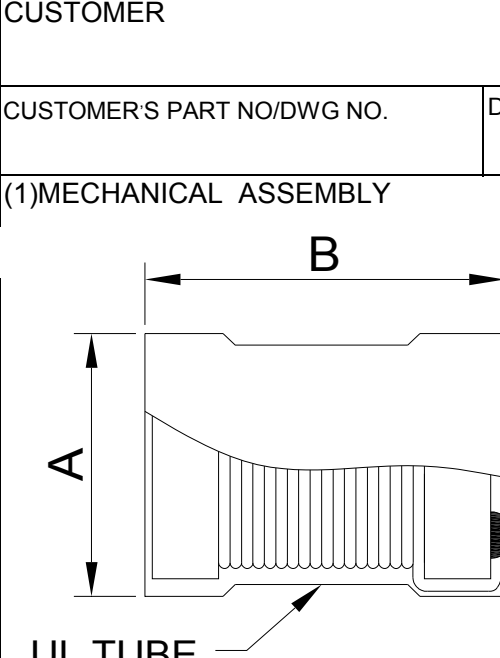
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DRAWN BY	Jiusheng	CHECKED BY	Liukan	APPROVED BY	Tangshan	QRA BY	
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SPECIFICATION FOR APPROVAL

CUSTOMER		ELTECH		CLS DWG. NO. CE1-3A1195		Rev A	
CUSTOMER'S PART NO/DWG NO.		DESCRIPTION SL0810T-102K-N		DATE 2013/11/7			
(1)MECHANICAL ASSEMBLY  UL TUBE				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				(3)SCHEMATIC			
L	1.0±10%	mH	TEST FREQUENCY	0.252MHZ 1V			
RDC	2.1max	Ω	TEST FREQUENCY				
L(at 0.3A)	L drop 10%max	uH	TEST FREQUENCY	1KHZ 1V			
Q	40.0 REF		TEST FREQUENCY	0.252MHZ 1V			
SRF	1.3min	MHZ	TEST FREQUENCY				
RATED CURRENT							
(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-102K-N			2013/11/7			
						QUANTITY		x	PCS.
MEAS. ITEM		L mH	RDC Ω	L(at 0.3A) uH	Q	SRF MHZ			
SPEC	CUSTOMER								
	SUGGEST	1.0±10%	2.1max	L drop 10%max	40.0 REF	1.3min			
TEST FREQ.		0.252MHZ 1V		1KHZ 1V	0.252MHZ 1V				
1		0.986	1.52	0.991	53.00	1.60			
2		0.984	1.51	0.996	52.00	1.60			
3		0.984	1.53	0.999	52.00	1.50			
4		0.988	1.52	0.993	52.00	1.60			
5		0.993	1.52	0.991	52.00	1.60			
6		0.988	1.51	0.992	50.00	1.70			
7		0.991	1.50	0.993	54.00	1.50			
8		0.990	1.52	0.992	51.00	1.60			
9		0.986	1.50	0.998	56.00	1.50			
10		0.993	1.51	0.998	54.00	1.60			
11									
12									
13									
14									
15									
X		0.988	1.51	0.994	52.60	1.58			
R		0.009	0.03	0.008	6.00	0.20			
CUSTOMER SAMPLE									
TEST CONDITION: TEMP. 25 °C R.H. 65%						APPROVED BY			
						Tangshan			
						CHECKED BY			
						Liukan			
						DRAWN BY			
						Jiusheng			



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

TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER ELTECH							CLS DWG. NO. CE1-3A1195		Rev A
CUSTOMER'S PART NO./DWG.NO.			DESCRIPTION SL0810T-102K-N				DATE 2013/11/7		
							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	8.65	11.57	25.33	18.16	4.92	0.66			
2	8.61	11.35	25.33	18.33	4.93	0.65			
3	8.74	11.47	25.28	18.41	4.95	0.64			
4	8.66	11.49	25.21	18.27	4.89	0.65			
5	8.67	11.45	25.48	18.30	5.06	0.65			
6	8.69	11.49	25.74	18.42	4.87	0.66			
7	8.65	11.45	25.64	18.35	4.85	0.65			
8	8.71	11.40	25.64	18.18	4.92	0.66			
9	8.69	11.36	25.25	18.31	5.16	0.64			
10	8.72	11.56	25.22	18.21	5.12	0.64			
11									
12									
13									
14									
15									
$\bar{X}$	8.68	11.46	25.41	18.29	4.97	0.65			
R	0.13	0.22	0.53	0.26	0.31	0.02			
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	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	2013/11/7
Jiusheng	Liukan	Tangshan	PART NO :	REV	
			ISSUE NO : SL0810T-102K-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> 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															