



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

Lead-Free & RoHs Compliance!!

SPECIFICATION FOR APPROVAL

CUSTOMER : ELTECH

CUSTOMER P/N : _____

OUR DWG No : CE1-380375

QUANTITY : X Pcs. DATE : 2013/9/10

ITEM : SL0810T-3R3M-N

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

奇力新電子股份有限公司
CHILISIN ELECTRONICS CORP.
NO.29,LANE 301,TEHHSIN ROAD,HUKOU,
HSINCHU,TAIWAN,303,REPUBLIC OF
CHINA
TEL : (03) 599-2646
FAX : (03) 599-9176
E-mail : Taiwan@chilisin.com.tw
http : //www.chilisin.com.tw

東莞奇力新電子有限公司
DONG GUANG CHILISIN ELECTRONICS LTD.
YULIANGWEI ADMINISTRATION AREA,QINGXI TOWN,
DONGGUANG, GUANGDONG, CHINA
TEL : 00286769-7730251~3 FAX : 00286769-7730232
E-mail : cect@chilisin.com.tw

奇力新電子(蘇州)有限公司
CHILISIN ELECTRONICS(SUZHOU)CO.,LTD
NO.10, Zhu Yuan Road, Suzhou New District, Suzhou, P.R.C.
TEL : 00286512-8255568 FAX : 00286512-8255568
E-mail : chilisin.suzhou@yageo.com.tw

台北營業處
TAIPEI OFFICE
3F,NO.233-1,PAO-CHIAO ROAD,
HSIN TIEN,TAIPEI,TAIWAN,
R.O.C.
TEL : (02)29112073
FAX : (02)29147698
E-mail : taipei@chilisin.com.tw

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

CUSTOMER		ELTECH		CLS DWG. NO.	Rev
				CE1-380375	A
CUSTOMER'S PART NO/DWG NO.		DESCRIPTION		DATE	
		SL0810T-3R3M-N		2013/9/10	
(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	0.65±0.05 m/m
				G	m/m
				H	m/m
				I	m/m
				J	m/m
				(2)ELECTRICAL REQUIREMENTS	
L	3.3±20% uH	TEST FREQUENCY	7.96MHZ	1V	
RDC	27.0max mΩ	TEST FREQUENCY			
L(at 3.6A)	L drop 10%max uH	TEST FREQUENCY	1KHZ	1V	
Q	20.0 REF	TEST FREQUENCY	7.96MHZ	1V	
SRF	70.0min MHZ	TEST FREQUENCY			
(4)TEST INSTRUMENTS					
<p>*CH502BC (RDC) *HP4285A (L,Q) *HP4284A+42841A (IDC)</p> <p>*Storage Temperature: Under 25 °C ,Humidity < 75% RH(6 Month) * Operating temperature -25°C to +85°C</p>					
NOTE: *Solder:Sn99.3Cu0.7 *EPOXY:FK661-500U *TUBE:9φ*13mm *C、D尺寸未達到要求,量產時改善 *產品需含浸後再套套管				APPROVED BY	
				Tangshan	
				CHECKED BY	
				Liukan	
				DRAWN BY	
VERSION				No.1	
				Jiusheng	



TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER						CLS DWG. NO.	Rev
ELTECH						CE1-380375	A
CUSTOMER'S PART NO./DWG.NO			DESCRIPTION			DATE	
			SL0810T-3R3M-N			2013/9/10	
						QUANTITY	PCS.
MEAS. ITEM		L uH	RDC mΩ	L(at 3.6A) mH	Q	SRF MHZ	
SPEC	CUSTOMER						
	SUGGEST	3.3±20%	27.0max	L drop 10%max	20.0 REF	70.0min	
TEST FREQ.		7.96MHZ 1V		1KHZ 1V	7.96MHZ 1V		
1		3.60	13.30	3.81	53	73	
2		3.61	13.10	3.84	53	76	
3		3.65	13.20	3.75	52	76	
4		3.62	12.42	3.80	52	77	
5		3.68	13.20	3.82	46	75	
6		3.65	13.10	3.88	54	76	
7		3.63	12.98	3.76	48	75	
8		3.64	13.00	3.77	51	76	
9		3.65	13.42	3.84	50	76	
10		3.67	13.48	3.87	51	76	
11							
12							
13							
14							
15							
\bar{X}		3.64	13.12	3.81	51.00	75.60	
R		0.08	1.06	0.13	8.00	4.00	
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						CE1-380375	A
CUSTOMER'S PART NO./DWG.NO				DESCRIPTION		DATE	
				SL0810T-3R3M-N		2013/9/10	
						QUANTITY	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	0.65±0.05
TEST							
FREQ.							
1		8.78	11.59	13.08	13.08	4.91	0.66
2		8.72	11.43	13.49	13.49	5.02	0.65
3		8.81	11.77	13.24	13.24	5.01	0.65
4		8.86	11.79	13.23	13.23	4.98	0.66
5		8.74	11.25	13.41	13.41	5.10	0.64
6		8.83	11.64	13.09	13.09	4.91	0.65
7		8.76	11.48	13.17	13.17	5.09	0.65
8		8.75	11.53	13.56	13.56	5.01	0.65
9		8.83	11.85	13.12	13.12	5.08	0.65
10		8.70	11.44	13.10	13.10	4.87	0.65
11							
12							
13							
14							
15							
\bar{X}		8.78	11.58	13.25	13.25	5.00	0.65
R		0.16	0.60	0.48	0.48	0.23	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		CHENZHOU OR EQUIV	
3	PIN	0.65φ		BEIQIXIN OR EQUIV	
4	Solder	Sn99.3Cu0.7		SHENYUAN OR EQUIV	
5	EPOXY	FK661-500U		QIFU OR EQUIV	
6	TUBE	9φ*13mm		XINGQI OR EQUIV	

DRAWN BY	CHECKED BY	APPROVED BY	CUSTOMER :	ELTECH	DATE	2013/9/10
Jiusheng	Liukan	Tangshan	PART NO :		REV	
			ISSUE NO :	SL0810T-3R3M-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"> <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															