



ISO9001 ISO14001 IATF16949 CHILISIN ELECTRONICS CORP.

RoHS & Halogen Free & REACH Compliance.

SPECIFICATION FOR APPROVAL

CUSTOMER : ELTECH

CUSTOMER P/N : _____

OUR DWG No : CE1-962019

QUANTITY : x Pcs. DATE : 2019/6/24

ITEM : AL0410ST-220K-N

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

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DRAWN BY	Jinju	CHECKED BY	Jim	APPROVED BY	Alfa	QRA BY	
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SPECIFICATION FOR APPROVAL

CUSTOMER		ELTECH			CLS DWG. NO. CE1-962019	Rev A	
CUSTOMER'S PART NO/DWG NO.		DESCRIPTION AL0410ST-220K-N			DATE 2019/6/24		
<p>(1)MECHANICAL ASSEMBLY</p>					A	4max m/m	
					B	10.5max m/m	
					C	0.6±0.05 m/m	
					D	52.4±1.5 m/m	
					E	5.0±0.5 m/m	
					F	6.0±1.0 m/m	
					L	61.0±2.0 m/m	
1 ST COLOR	RED	2 ND COLOR	RED	3 RD COLOR	BLACK	4 TH COLOR	SILVER
(2)ELECTRICAL REQUIREMENTS					(3)SCHEMATIC		
L	22±10%	uH	TEST FREQUENCY	2.52MHZ	1V		
RDC	0.84max	Ω					
Isat	0.41max	A	TEST FREQUENCY	1KHZ	0.25V		
Irms	0.45max	A	TEST FREQUENCY		ΔT ≤ 40°C		
Q	60min		TEST FREQUENCY	2.52MHZ	1V		
SRF	9.9min	MHZ					
(4)TEST INSTRUMENTS							
<p>*HP4285A(L,Q,SRF) *16502 (RDC) *WK3260B+3265B+HP42841A(Isat)</p> <p>*Storage Temperature: Under 25 °C ,Humidity < 75% RH(6 Month) * Operating temperature -25°C to +85°C</p>							
<p>NOTE: *GLUE:7204 *Under-Coating Resin:UV-DG01 *Over-Coating Resin:DGT-1 *Color-Coating Resin:DA *NON-ADHESIVE BELTING TAPE:SY672 *Masking Tape:SY3062 *IDC:L drop 10%max</p> <p>*The current shall not exceed the specified one when using this part.</p>					APPROVED BY		
					Alfa		
					CHECKED BY		
					Jim		
					DRAWN BY		
Jinju							



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TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER ELTECH						CLS DWG. NO. CE1-962019	Rev A	
CUSTOMER'S PART NO./DWG.NO.			DESCRIPTION AL0410ST-220K-N			DATE 2019/6/24		
						QUANTITY	x	PCS.
MEAS. ITEM	L uH	RDC Ω	Isat mA	Irms A	Q	SRF MHZ		
SPEC	CUSTOMER							
	SUGGEST	22±10%	0.84max	0.41max	0.45max	60min	9.9min	
TEST FREQ.	2.52MHZ 1V		1KHZ 0.25V	ΔT ≤ 40℃	2.52MHZ 1V			
1	22.04	0.677	OK	OK	82	14.70		
2	22.17	0.670	OK	OK	81	12.00		
3	21.90	0.676	OK	OK	83	15.40		
4	22.34	0.705	OK	OK	85	12.70		
5	21.41	0.677	OK	OK	83	17.00		
6	21.74	0.689	OK	OK	85	16.30		
7	21.65	0.687	OK	OK	86	16.90		
8	21.58	0.705	OK	OK	83	16.60		
9	21.89	0.691	OK	OK	80	15.50		
10	22.13	0.701	OK	OK	85	14.00		
11								
12								
13								
14								
15								
\bar{X}	21.89	0.69			83.30	15.11		
R	0.93	0.03			5.00	0.00		
CUSTOMER SAMPLE								
TEST CONDITION: TEMP. 25 °C R.H. 65%						APPROVED BY Al fa		
						CHECKED BY Jim		
						DRAWN BY Jinju		



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TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER ELTECH							CLS DWG. NO. CE1-962019	Rev A	
CUSTOMER'S PART NO./DWG.N				DESCRIPTION AL0410ST-220K-N			DATE 2019/6/24		
							QUANTITY	x	PCS.
MEAS. ITEM	A m/m	B m/m	C m/m	D m/m	E m/m	F m/m	L m/m		
CHS	CUSTOMER SUGGEST	4max	10.5max	0.6±0.05	52.4±1.5	5.0±0.5	6.0±1.0	61.0±2.0	
	TEST FREQ.								
1	3.51	8.59	0.58	52.49	5.16	5.88	60.77		
2	3.41	8.14	0.59	52.56	5.17	5.90	60.70		
3	3.44	8.00	0.59	52.40	5.12	5.92	60.50		
4	3.46	8.34	0.61	52.41	5.15	5.89	60.96		
5	3.47	8.49	0.60	52.61	5.23	5.90	60.65		
6	3.38	8.47	0.62	52.41	4.97	5.92	60.62		
7	3.44	8.30	0.62	52.62	5.27	5.92	60.65		
8	3.46	8.12	0.62	52.32	5.22	5.89	60.68		
9	3.41	8.40	0.60	52.39	5.21	5.88	60.68		
10	3.45	8.35	0.60	52.59	5.26	5.89	60.65		
11									
12									
13									
14									
15									
\bar{X}	3.44	8.32	0.60	52.48	5.18	5.90	60.69		
R	0.13	0.59	0.04	0.30	0.30	0.04	0.46		
CUSTOMER SAMPLE									
TEST CONDITION: TEMP. 25 °C R.H. 65%							APPROVED BY Alfa		
							CHECKED BY Jim		
							DRAWN BY Jinju		



5. MATERIAL LIST :

ITEM	PART	DESCRIPTION	TEMP	SUPPLIERS	UL NO.
1	Core	FERRITE		JIACI OR EQUIV	
2	WIRE	φ0.1mm UEW		RONSEN OR EQUIV	
3	Solder	無鉛錫條		JU TAI OR EQUIV	
4	LEAD WIRE	鍍錫銅包鋼線		YE HUA OR EQUIV	
5	GLUE	7204		JINSHENGDA OR EQUIV	
6	UNDER-COATING	UV-DG01		FUXIN OR EQUIV	
7	OVER-COATING RESIN	DGT-1		FUXIN OR EQUIV	
8	COLOR-COATING	DA		FUXIN OR EQUIV	
9	NON-ADHESIVE BELTING TAPE	SY672		RUIDE NEW OR EQUIV	
10	MASKING TAPE	SY3062		RUIDE NEW OR EQUIV	

DRAWN BY	CHECKED BY	APPROVED BY	CUSTOMER :	ELTECH	DATE	2019/6/24
Jinju	Jim	Alfa	PART NO :		REV	A
			SSUE NO	AL0410ST-220K-N	RACE	



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1-1 Mechanical Performance

No	Item	Specification	Test Method
1-1-1	Vibration	Appearance: No damage L change: within±10%	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

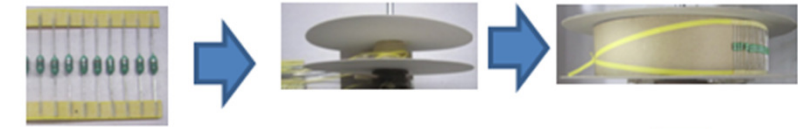
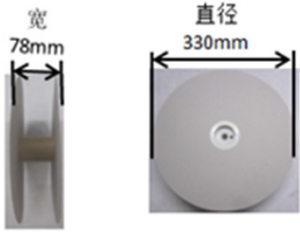
1-2 Environmental Performance

No	Item	Specification	Test Method															
1-2-1	Temperature Cycle	Appearance: No damage L change: within±10%	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															



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PACKING:



3000PCS/BOXES

INNER LABEL:

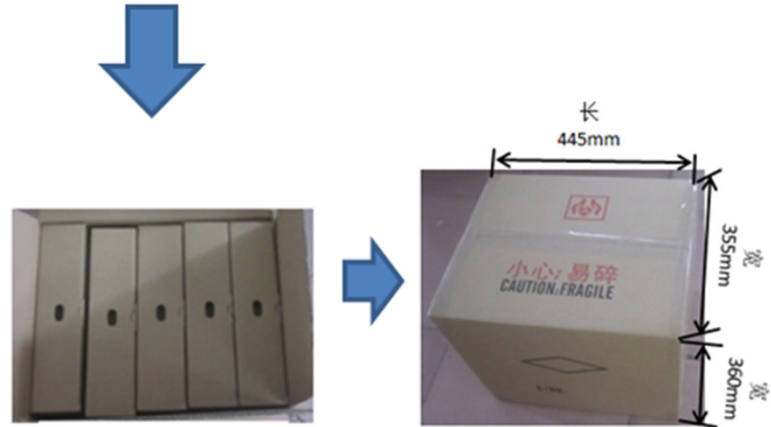
CHILISIN	
ITEM	YOUR ALD410ST-220K-N
	OUR ALD410ST-220K-N
LOT NO	
QTY	3000PCS
DATE	



3000PCS/BOXES

OUTER LABEL:

P/N:	AL0410ST-220K-N
P/O:	
QTY:	15000PCS
N.W:	KG
G.W:	KG
批号:	



5 BOXES/CARTON
TOTAL 15000PCS