

SPECIFICATION FOR APPROVAL

<p>CUSTOMER'S APPROVAL CHOP</p> <p>Approval's Condition: _____</p> <p>Approved Date: _____</p>
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KINDLY RETURN A SET WITH YOUR COMPANY'S OFFICIAL STAMP ON APPROVAL OF THIS ITEM

CUSTOMER'S NAME: _____

CUSTOMER'S MODEL NO. : _____

CUSTOMER'S PART NO. : 3A1300001821

DESCRIPTION: BALUN TRANSFORMER

Semitel'S MODEL NO. : S-088-0124

VERSION: E

DATE: 2017-9-21

Attachments:

- Product Specification
- Sample Qty. :
- Test Data

Prepared By	Checked By	Approved By
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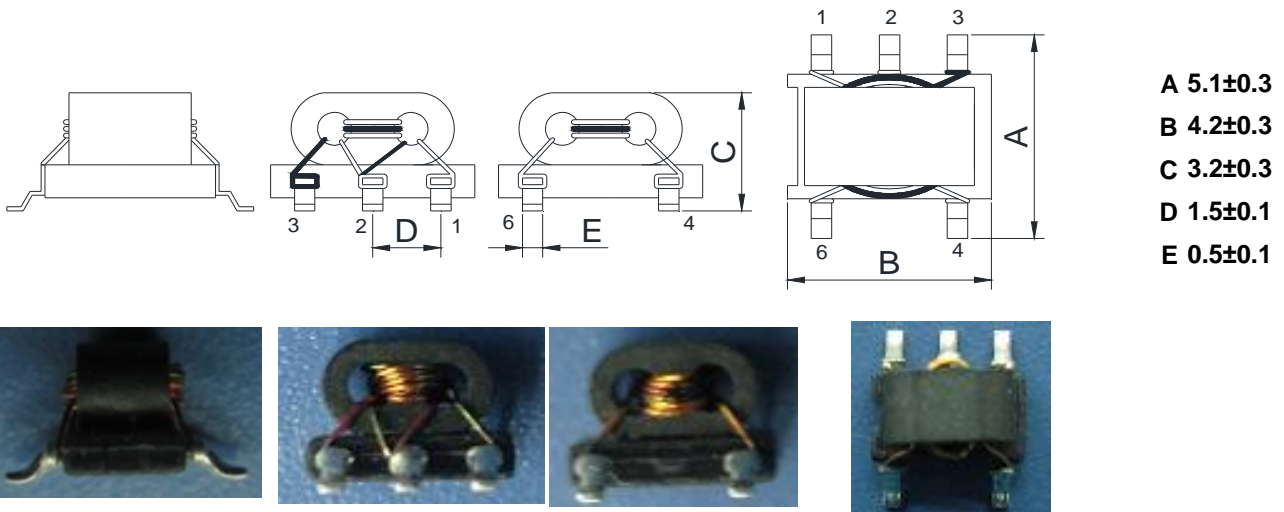
Revision Record

Version	Revision Date	Revision For Items	Reason For Revision
A	2011-12-12	New Revision	-
B	2012-2-1	Every small packing box contains two rolls of carrier tape	Change the packing way
C	2012-2-3	Every cartoon box contains 4 small packing boxes	correct a mistake
D	2016-3-25	1, Dimension B changes from 4.5MAX to 4.2±0.3mm 2, Dimension C changes from 3.5MAX to 3.2±0.3mm 3, Dimension E changes from 0.5REF to 0.5±0.1mm	customer request
E	2017-9-21	Change the core supplier	Original supplier is closed

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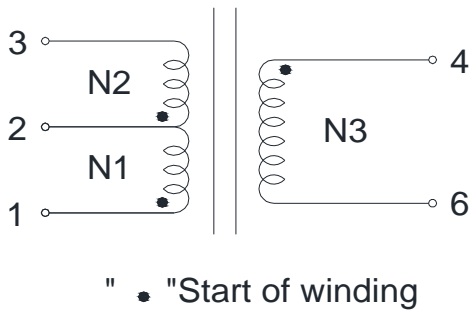
Product Specification

1. Physical Dimensions (Unit:mm)

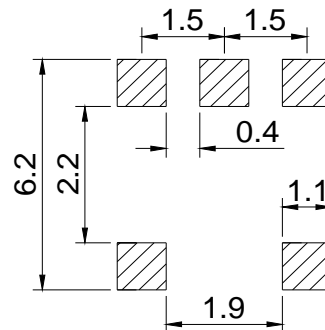


*Dimension does not including soldering tags

2.Connection



3.Recommended Pad Layout (Unit:mm)



4. Electrical Characteristics

Winding	Pin No	No of truns	Wire Spec	Insertion Loss(dB) [Max.] 3MHz~200MHz	Withstand Voltage @PIN3 to PIN4
N1	1-2	3 Ts	ø0.1mm P180 (Red)	2.5dB Max.	AC 500V, 2mA, 1 Min
N2	2-3	3 Ts	ø0.1mm P180 (Green)		
N3	4-6	6 Ts	ø0.1mm P180 (Gold)		

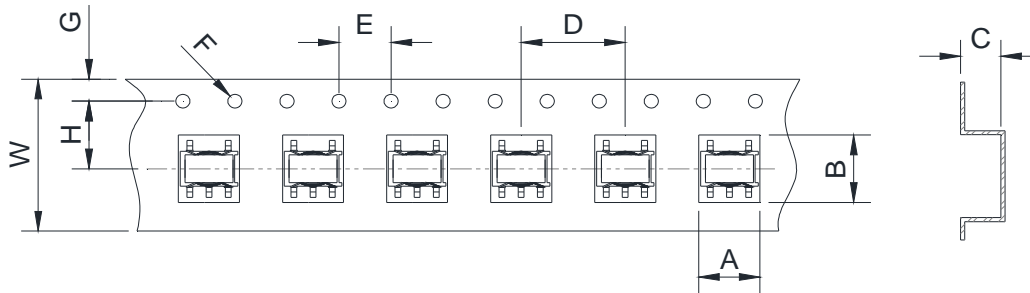
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Product Specification

5. Bill of Material

No	Items	Material Name	Manufacturer	UL File No	SGS File No
1	Core	Ni-Zn Material ferrite cores LDH RID 3.5x2x2	SINCORES or Equivalent	NIL	CANEC1708500807
2	Base	PM-9630	SUMITOMO (SumiDurez) or Equivalent	E41429	SHAEC1705662106
3	PIN	Copper metal sheet	XINXING or Equivalent	NIL	CANML1624542701
4	Copper Wire	φ0.10mm P180 Red φ0.10mm P180 Green φ0.10mm P180 Gold	ELEKTRISOLA or Equivalent	E258243	CE/2017/40923
5	Epoxy	TH320	TIANHUAN or Equivalent	E257593	CANEC1619173403
6	Solder	Lead free solder	HONGTAIZHOU or Equivalent	NIL	CANEC1710839309

6. Tape Dimensions (Unit:mm)



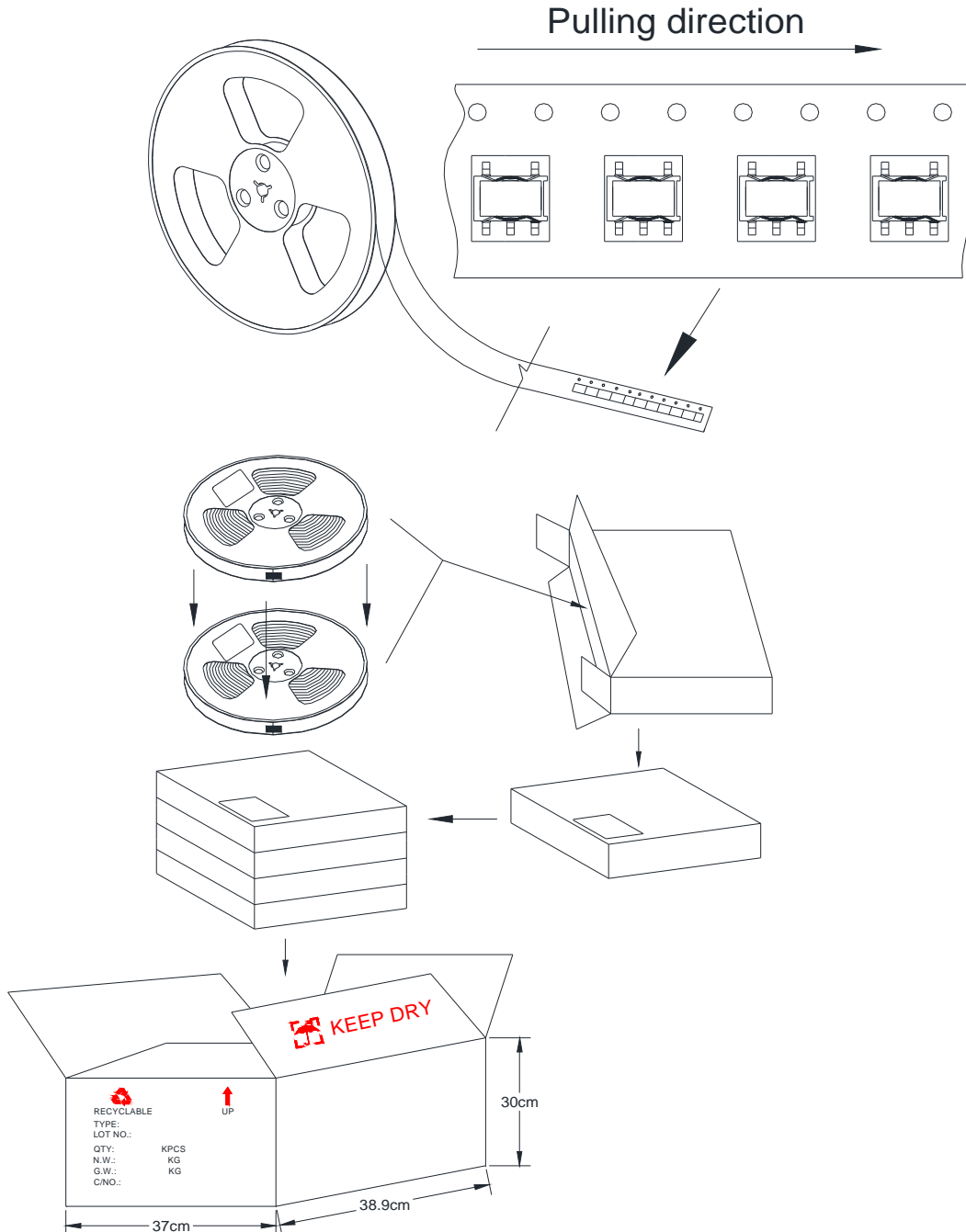
ITEM	W	A	B	C	D	E	F	G	H
Spec	12.0 ^{±0.3}	5.6 ^{±0.1}	4.6 ^{±0.1}	3.6 ^{±0.1}	8.0 ^{±0.1}	4.0 ^{±0.1}	1.5 ^{+0.1/-0.0}	1.75 ^{±0.1}	5.5 ^{±0.1}

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7.Packing Request

- *Every roll of the carrier tape can contain 2000pcs products.
- *Every small packing box contains two rolls of carrier tape. Total quantity: 4000pcs.
- *Every carton box contains 4 small packing boxes. Total quantity: 16000pcs.



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Test Report

Test instruments

- Tonghui TH2819A LCR □ Tonghui TH7133
- Zentech 310 □ Zentech 9072A
- Agilent 4395A □ Agilent 4284A
- Micrometer □ TMS
- Caliper

Test item	L(1-3)	L(4-6)	DCR(1-3)	DCR(4-6)	IL				Withstand Voltage
Con. NO.			at 25°C	at 25°C	3MHz	10MHz	100MHz	200MHz	PIN3 to PIN4
	5.3 μH Ref.	5.3 μH Ref.	120mΩ Max.	120mΩ Max.	2.5dB Max.	2.5dB Max.	2.5dB Max.	2.5dB Max.	AC 500V 2mA,1 Min
1	4.36	4.74	105.60	105.50	0.09	0.06	0.28	1.47	OK
2	4.36	4.68	106.50	108.10	0.12	0.02	0.30	1.38	OK
3	4.36	4.69	105.90	105.70	0.08	0.08	0.28	1.46	OK
4	4.71	5.09	106.80	106.60	0.15	0.03	0.24	1.73	OK
5	4.66	5.60	106.20	106.10	0.14	0.09	0.36	1.24	OK
MAX.	4.71	5.60	106.80	108.10	0.15	0.09	0.36	1.73	
MIN.	4.36	4.68	105.60	105.50	0.08	0.02	0.24	1.24	
AVG.	4.49	4.96	106.20	106.40	0.12	0.06	0.292	1.46	
Result	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	OK

Overall Dimensions Test

Measurement Tools: Caliper (Unit:mm)

NO	A	B	C	D	E			
	5.1±0.3	4.2±0.3	3.2±0.3	1.5±0.1	0.5±0.1			
1	5.12	4.28	3.35	1.45	0.45			
2	5.12	4.31	3.30	1.48	0.46			
3	5.13	4.34	3.25	1.51	0.44			
4	5.09	4.29	3.29	1.47	0.45			
5	5.08	4.30	3.25	1.46	0.47			

MIN.	5.08	4.28	3.25	1.45	0.44			
MAX.	5.13	4.34	3.35	1.51	0.47			
AVG.	5.11	4.30	3.29	1.47	0.45			
Result	Passed	Passed	Passed	Passed	Passed			

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