

## SPECIFICATION FOR APPROVAL

<p><b>CUSTOMER'S APPROVAL CHOP</b></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

<b>CUSTOMER'S NAME:</b>	_____
<b>CUSTOMER'S MODEL NO. :</b>	_____
<b>CUSTOMER'S PART NO. :</b>	_____
<b>DESCRIPTION:</b>	PQ2615
<b>Semitel'S MODEL NO. :</b>	PQ2615-322
<b>VERSION:</b>	E
<b>DATE:</b>	2017/7/28

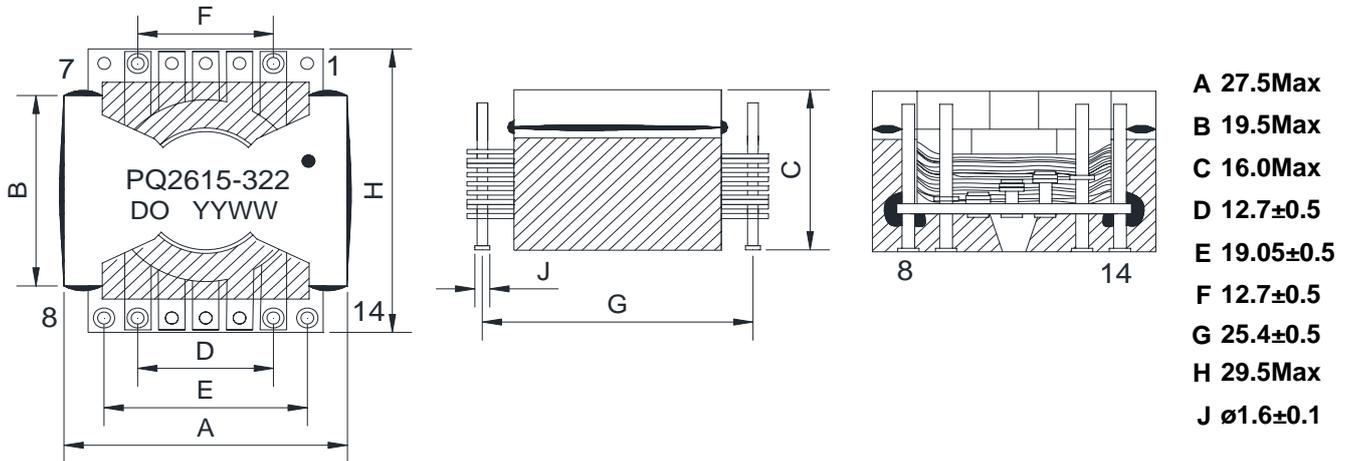
<p><b>Attachments:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Product Specification</li> <li><input type="checkbox"/> Sample Qty. :</li> <li><input type="checkbox"/> Test Data</li> </ul>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px;">Prepared By</th> <th style="padding: 5px;">Checked By</th> <th style="padding: 5px;">Approved By</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Hebe Deng 2017/7/28</td> <td style="padding: 5px;">Liang Wong 2017/7/28</td> <td style="padding: 5px;">Alan Wong 2017/7/28</td> </tr> </tbody> </table>	Prepared By	Checked By	Approved By	Hebe Deng 2017/7/28	Liang Wong 2017/7/28	Alan Wong 2017/7/28
Prepared By	Checked By	Approved By					
Hebe Deng 2017/7/28	Liang Wong 2017/7/28	Alan Wong 2017/7/28					

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# Product Specification

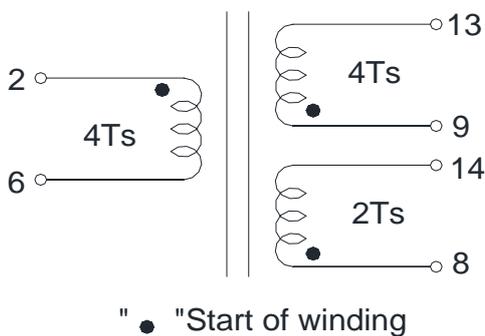
## 1. Physical Dimensions (Unit:mm)



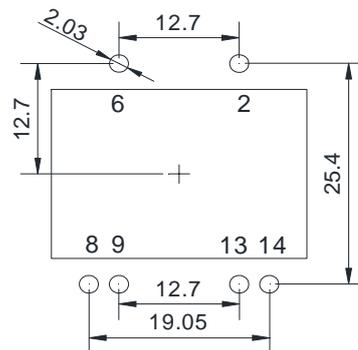
### Notes:

- \*Marking type is laser printing
- \*YY: Year Code; WW: Week Code
- \*Size A not including epoxy
- \*Size B not including epoxy
- \*Coplanarity Requirement: Less than 0.15mm
- \*Add a layer of plastic tape to the bottom part of the core

## 2. Connection



## 3. Recommended Pad Layout (Unit:mm)



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### 4. Electrical Characteristics

NO	Items	Winding	Specifications	Test Conditions	Test Instruments
1	Inductance	L(2-6)	70uH MIN. (90uH TYP)	at 100KHz 1.0V	HP4284A
2	LK-Inductance	LK(2-6) Tie(8,9,13,14)	100nH MAX. (30nH TYP)		
3	DCR	R(2-6)	4.51mΩ MAX. (4.0mΩ TYP)	at 25°C	VR131
		R(9-13)	4.51mΩ MAX. (4.0mΩ TYP)		
		R(8-14)	300mΩ MAX.		
4	Capacitance	2,6 to 9,13	1000pF MAX.	at 100KHz 1.0V	1062 LCR
5	Hi-Pot	Pri. to Sec.	1500VDC	2mA 6 Sec	CS2670A
		Pri.&Sec.to CORE	500VDC	2mA 6 Sec	

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## 5. Bill of Material

\*The melting point of the tin is 245°C, the tin start melting in 30S at that temperature.

\*The thickness of the PCB is 0.6±0.1mm, Material is S1000. Endure temperature is Tg 155°C.

\*The pin hole diameter of the PCB is 1.0mm.

\*The material of the Pin of the transformer is C1100.

No	Item	Material Name	Manufacturer	UL File No	SGS File No
1	Core	SOFT MAGNETIC FERRITE CORE (YMP9 PQI26/15)	YINGQIU or Equivalent	NIL	SHAEC1714224901
2	Copper Foil	C1100 Copper Foil (0.4mm thickness)	WEN XIANG or Equivalent	NIL	CANEC1701790901
3	PCB Board	FR-4.0 Woven glass,Epoxy resin	GOLDENMAX (SHENGYI) or Equivalent	E330731	CANEC1701735802
4	Polyimide Tape	POLYIMIDE FILM	RUNSEA (RAYITEK)or Equivalent	E339977	CANML1708589301
5	Epoxy	TH320	TIANHUAN or Equivalent	E257593	CANEC1619173404
6	Solder	Lead free solder paste	HENLYWIN or Equivalent	NIL	SZXEC1700088401

## 6.Outlook Requirement

(1).The product should have a pass certificate and a durable and waterproof label. It should state clear the model and specifications.

(2).The product should have a clean and tidy outlook. No damage or scratch should be found.

## 7.Test Requirement

(1).The product should be tested with all the electric characteristics, especially the voltage durable tests. There should be a report of 100% electric characteristic test or a quality ensurance letter in the packing box.

(2).For every lot of the products, they should be followed the product specification, which can meet the industrial standards, to do the sampling checking. For passed products, the related checking pass report and the sampling test data should be prepared and put into the last carton box or the one without full amount of packing. The test report should state clear the products are 100% hi-pot passed products.

## 8.Package Requirement

(1).The label of the packing should state clear the model, the name, the quantity and the date of production, as well as the manufacturer of the product. The quality pass stamp should be put onto the label.

(2).The packing should be in good status after delivered to the customer. The sealing tape should be good and the carton boxes should be without any sign of damage

(3).The inductor should be packed with wooden boxes or other materials which cannot be dismantled easily. It should be wrapped with soft materials around for protection.

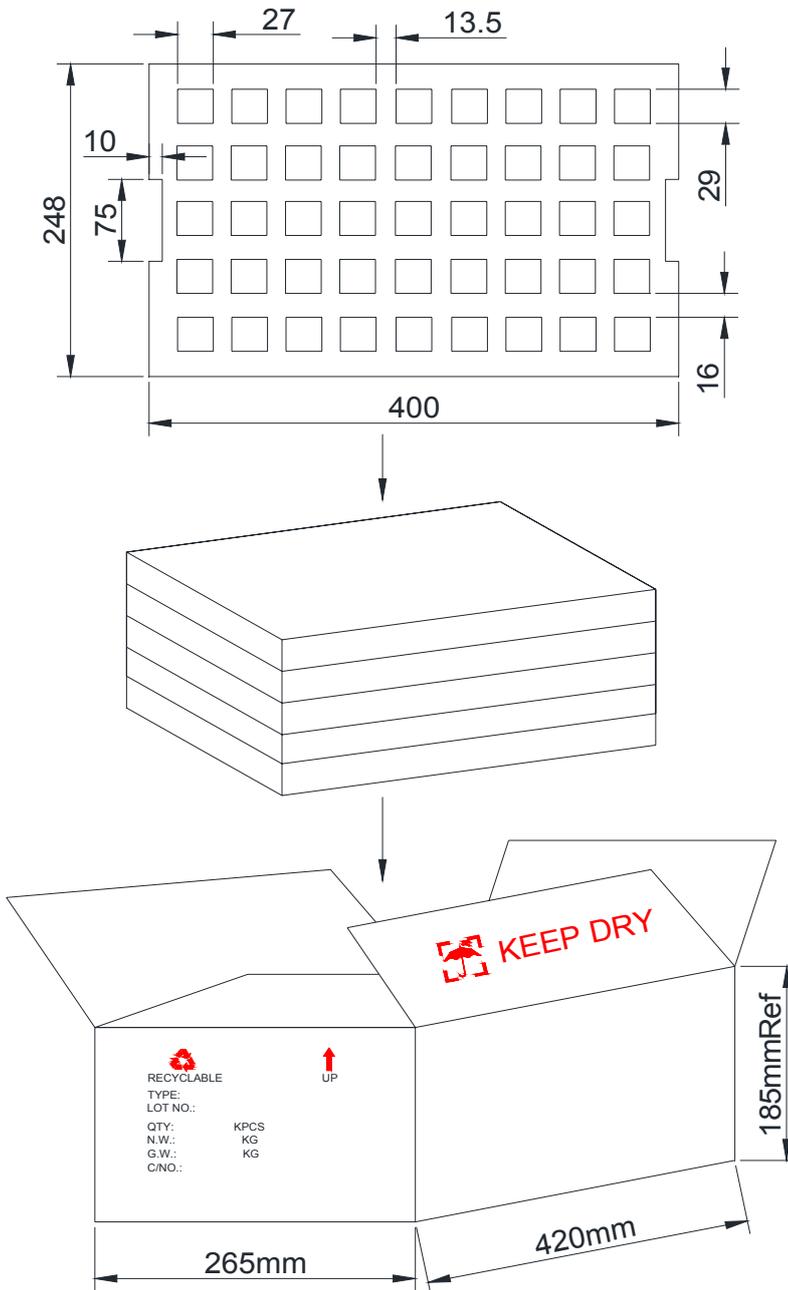
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### 9.Packing Request

\*Put in the EPE slot, each layer contains 45pcs products.

\*Every cartoon box contains 225pcs products,with a total of 5 layers.



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# Test Report

Test item	Test Instruments							
	HP4284A	HP4284A	VR131	VR131	VR131		CS2670A	
	Inductance	LK-Inductance	DCR	DCR	DCR	Capacitance	Hi-Pot	
	at 100KHz 1.0V	at 100KHz 1.0V	at 25°C	at 25°C	at 25°C	at 100KHz 1.0V	2mA 6 Sec	2mA 6 Sec
	L(2-6)	LK(2-6) Tie(8,9,13,14)	R(2-6)	R(9-13)	R(8-14)	P(2,6 TO 9,13)	Pri. to Sec.	Pri.&Sec.to CORE
Con. NO.	70uH MIN. (90uH TYP)	100nH MAX. (30nH TYP)	4.51mΩ MAX. (4.0mΩ TYP)	4.51mΩ MAX. (4.0mΩ TYP)	300mΩ MAX.	1000pF MAX.	1500VDC	500VDC
1	113.9	50.0	4.11	3.92	21.87	200.70	PASS	PASS
2	122.1	60.0	4.29	4.19	21.21	207.20	PASS	PASS
3	105.5	60.0	4.41	4.17	20.37	159.60	PASS	PASS
4	112.2	50.0	4.01	4.33	20.76	218.40	PASS	PASS
5	116.2	50.0	4.12	4.35	21.50	180.60	PASS	PASS

MAX.	122.1	60.0	4.41	4.35	21.87	218.40		
MIN.	105.5	50.0	4.01	3.92	20.37	159.60		
AVG.	114.0	54.0	4.19	4.19	21.14	193.30		
<b>Result</b>	<b>Passed</b>							

## Overall Dimensions Test

Measurement Tools: Caliper (Unit:mm)

NO	A	B	C	D	E	F	G	H	J	
	27.5Max	19.5Max	16.0Max	12.7±0.5	19.05±0.5	12.7±0.5	25.4±0.5	29.5Max	ø1.6±0.1	
1	26.92	19.05	15.54	12.76	18.81	12.67	25.20	27.76	1.60	
2	26.84	19.06	15.57	12.75	18.81	12.74	25.30	28.60	1.63	
3	26.95	19.15	15.60	12.61	19.07	12.76	25.24	28.57	1.64	
4	26.87	19.05	15.61	12.75	19.00	12.77	25.28	25.41	1.69	
5	26.89	19.05	15.60	12.59	18.90	12.64	25.39	28.48	1.65	
MIN.	26.84	19.05	15.54	12.59	18.81	12.64	25.20	25.41	1.60	
MAX.	26.95	19.15	15.61	12.76	19.07	12.77	25.39	28.60	1.69	
AVG.	26.89	19.07	15.58	12.69	18.92	12.72	25.28	27.76	1.64	
<b>Result</b>	<b>Passed</b>									

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