

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. : _____

DESCRIPTION: PQ2016

Semitel'S MODEL NO. : PQ2016-729

VERSION: B

DATE: 2021/2/21

Attachments:

- Product specification
- Sample Qty. :
- Test data

Prepared By	Checked By	Approved By
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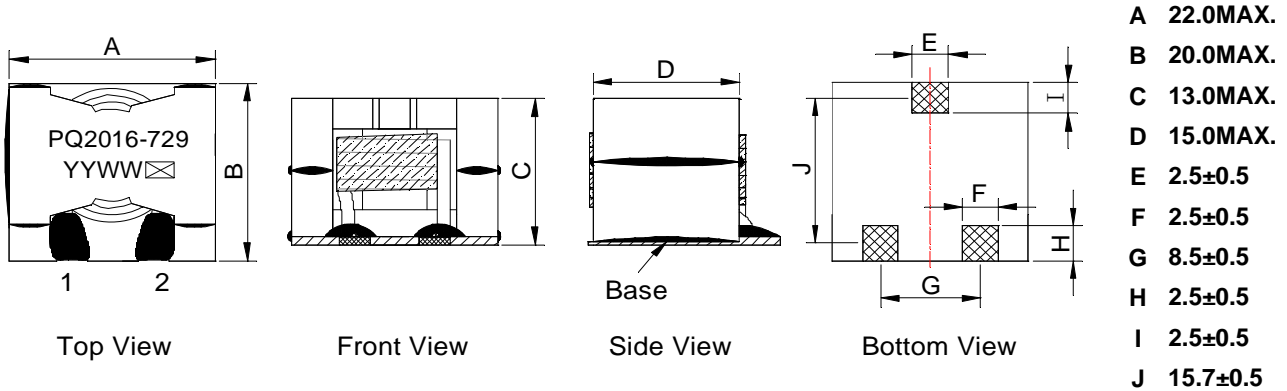
Revision Record

Version	Revision Date	Revision For Items	Reason For Revision
A	2021/1/28	New Revision	-
B	2021/2/21	1, Change the material of copper Wire 2, Add tape to the coil .	Production needed

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Product Specification

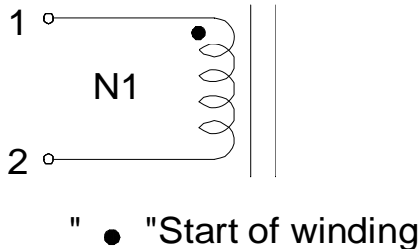
1. Physical Dimensions (Unit:mm)



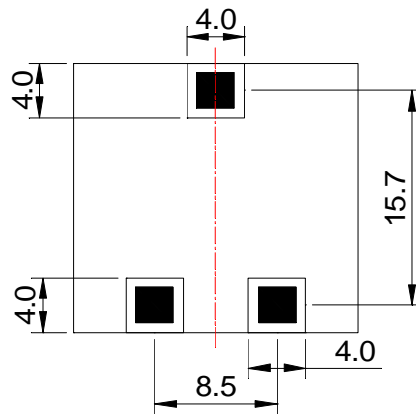
Notes:

- *Marking type is laser printing
- *YY: Year Code; WW: Week Code
- * ☒ :When making samples, S is used to represent the product is a sample
- * ☒ :Use different letters or numbers to represent the products are produced from different production lines
- *Size A and D not including Epoxy
- *Coplanarity Requirement: Less than 0.15mm

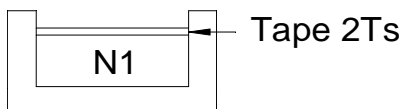
2.Connection



3.Recommended Pad Layout (Unit:mm)



4.Structure of Products



5.No of turns & Wire spec.

No	No of Pin	Turns	Wire Spec
N1	1--2	8Ts	ø1.3mm HAI/U



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6. Electrical Characteristics

Items	Winding	Specifications	Test Conditions
Inductance	L(1-2)	12uH±10%	at 100kHz, 1Vrms
DC.Bias	L(1-2)	L12A/L0A ≥ 80%	at 100kHz, 1Vrms, 12ADC
DCR	R(1-2)	5.6mΩ MAX.	at 25°C

7. Bill of Material

No	Item	Material Name	Manufacturer	UL File No	SGS File No
1	Core	FERRITE CORE JCP-95	FCRI or Equivalent	NIL	A2200234874101001R1
2	Base	PM-9630	SUMITOMO (SumiDurez) or Equivalent	E41429	SHAEC2002442505
3	Copper Wire 	Enamelled copper wire HAI/U	PACIFIC or Equivalent	E201757	A220035992510303E
4	Polyimide Tape 	Polyimide Adhesive Tape PF-301	YAHUA or Equivalent	E165111	CANEC2008940301
5	EPOXY	H907-HF	HUA CHUANG or Equivalent	E304477	A2200309495101001
6	Solder	Lead free solder	HONGTAIZHOU or Equivalent	NIL	SZXEC2001415205

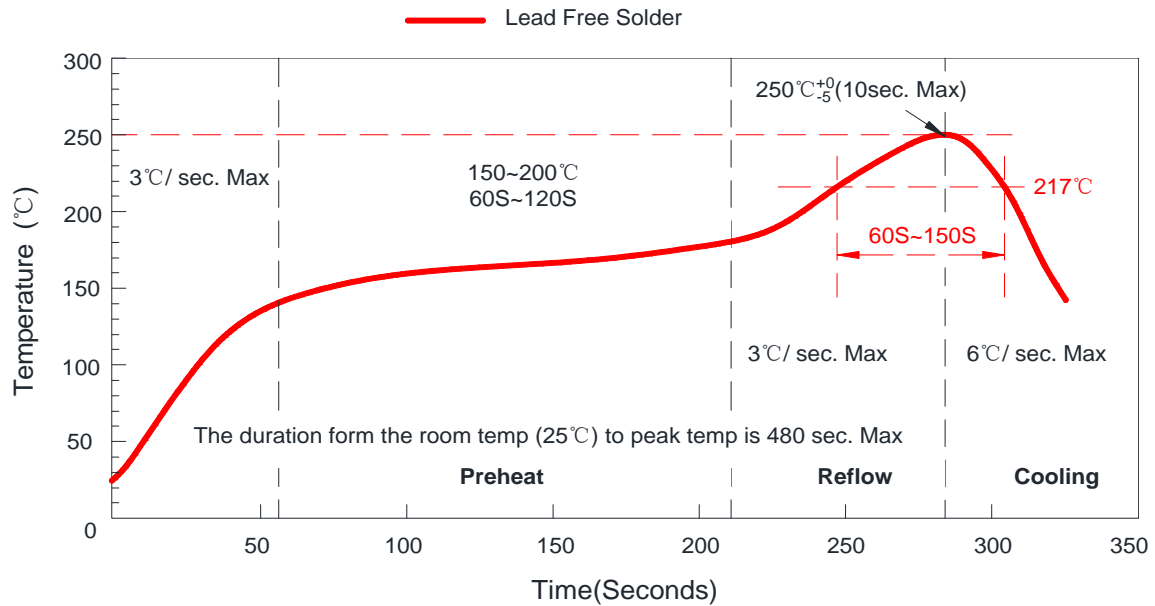
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8.Recommended Temperature Conditions of Air Reflow Soldering

Test Solderability Temperature Profile



Profile Feature	
Average Ramp-Up Rate (T _{smax} to T _p)	3°C/Second Max.
Preheat	
-Temperature Min. (T _{smin})	150°C
-Temperature Max. (T _{smax})	200°C
-Time (T _{smin} to T _{smax})	60-120 Seconds
Time maintained above:	
-Temperature (T _L)	217°C
-Time (T _L)	60-150 Seconds
Peak/Classification Temperature (T _p)	250°C
Time within 5°C of actual PeakTemperature (T _p)	10 Seconds Max.
Ramp-Down Rate	6°C/Second Max.
Time 25°C to Peak Temperature	8 Minutes Max.

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Test Report

Test Instruments										
	HP4284A	LCR METER 1062 1720	VR131							
NO	Inductance	DC.Bias	DCR							
	L(1-2)	L(1-2)	R(1-2)							
	at 100kHz,1Vrms	at 100kHz,1Vrms, 12ADC	at 25°C							
	12uH±10%	L12A/L0A≥80%	5.6mΩ MAX.							
1										
2										
3										
4										
5										
MIN.	0.00	0.00	0.00							
MAX.	0.00	0.00	0.00							
AVG.	#DIV/0!	#DIV/0!	#DIV/0!							
Result	Passed	Passed	Passed							
Overall Dimensions Test						Measurement Tools: Caliper (Unit:mm)				
NO	A	B	C	D	E	F	G	H	I	J
	22.0MAX.	20.0MAX.	13.0MAX.	15.0MAX.	2.5±0.5	2.5±0.5	8.5±0.5	2.5±0.5	2.5±0.5	15.7±0.5
1										
2										
3										
4										
5										
MIN.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG.	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Result	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed

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