

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:	EQ1610
Semitel'S MODEL NO. :	EQ1610-664
VERSION:	A
DATE:	2026/2/5

Attachments:

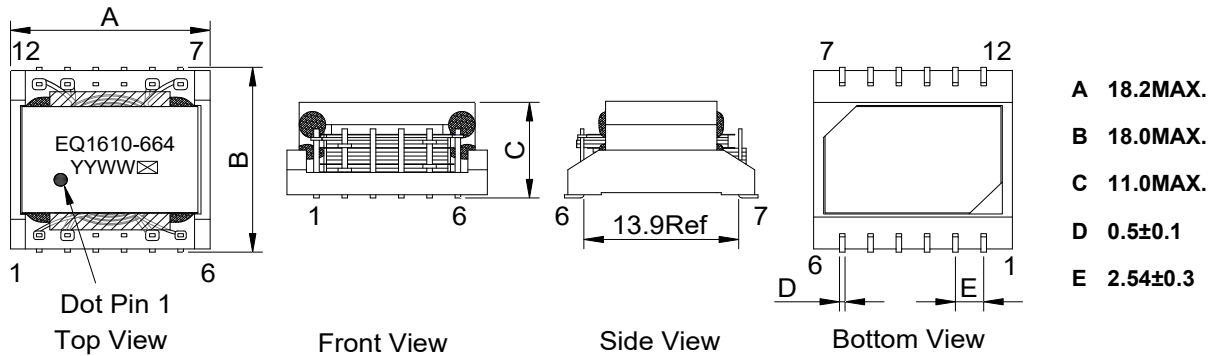
- Product specification
- Sample Qty.:
- Test data

Prepared By	Checked By	Approved By
Hebe Deng 2026/2/5	Hansel Ho 2026/2/5	Eric Chang 2026/2/5

Semitel International Ltd.,	TEL: 886-2-86922121 FAX: 886-2-26483379
www.semitelint.com	11F., No. 43-5, Zhongxing Rd., Xizhi Dist., New Taipei City 221012, Taiwan

Product Specification

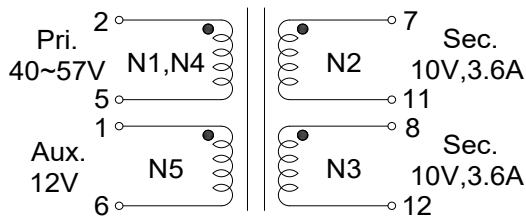
1. Physical Dimensions (Unit:mm)



Notes:

- (1). Marking type is laser printing
- (2). YY: Year Code; WW: Week Code
- (3). ☒ :When making samples, S is used to represent the product is a sample
- (4). ☒ :Use different letters or numbers to represent the products are produced from different production lines
- (5). Size B does not include solder tips
- (6). Coplanarity requirement: Less than 0.15mm

2. Connection

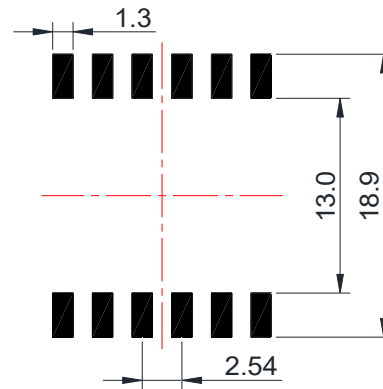


" ● "Start of winding

*Customer to tie terminals 8&11 on PC board.

*Application of the transformer allows for the leadwires between terminals 8&11 to solder bridge.

3. Recommended Pad Layout (Unit:mm)



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6. Electrical Characteristics

*Electrical specifications @25°C unless otherwise noted

*Operating temperature range: -40°C to +125°C

*Storage temperature range: -40°C to +125°C

Tape and reel packaging: -40°C to +80°C

Items	Winding	Specifications	Test Conditions
Inductance	L(2-5)	100uH±20%	at 100kHz,0.1V
LK-Inductance	LK(2-5) Tie others	0.8uH MAX.	at 100kHz,0.1V
DCR	R(2-5)	63mΩ MAX.	at 25°C
	R(1-6)	123mΩ MAX.	
	R(7-11)	12.5mΩ MAX.	
	R(8-12)	12.5mΩ MAX.	
Turns Ratio	(2-5):(1-6):(7-11):(8-12)	12:6:5:5;±3%	at 100kHz,0.1V
Hi-Pot	Pri. To Sec.	2250VDC	3mA.1S
	Win. To Core	600VDC	3mA.1S

7.Bill of Material

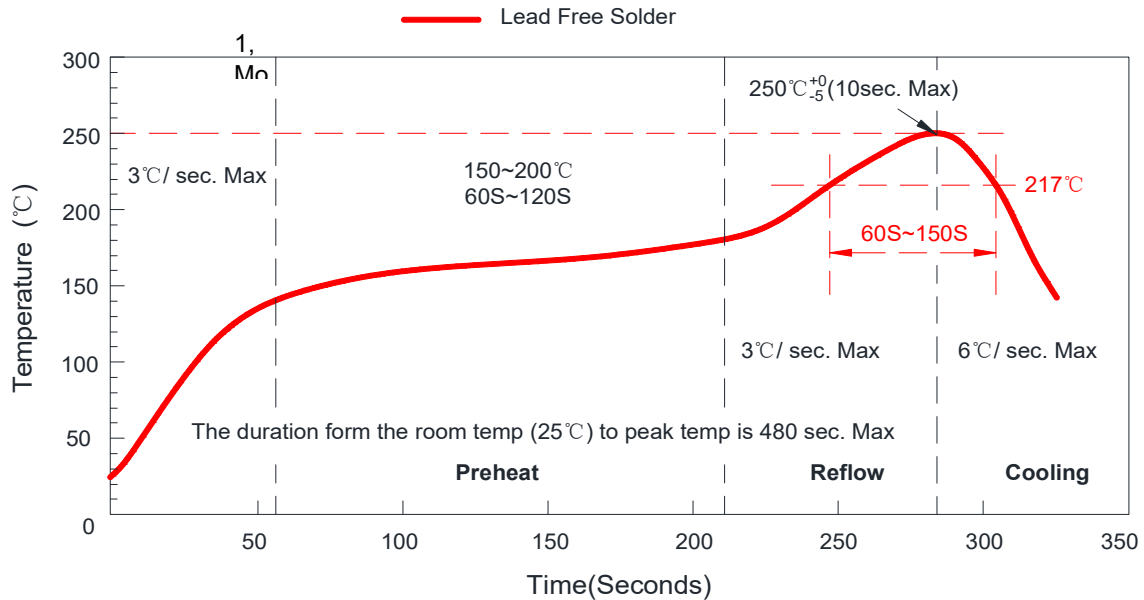
No	Item	Material Name	Manufacturer	UL File No	SGS File No
1	Core	FERRITE CORE KH96A	KTONG or Equivalent	NIL	TAOEC25007367208
2	Base	PM-9630	SUMITOMO or Equivalent	E41429	SHAEC25032376101
3	Pin	Tinned copper clad steel wire	HONGFU or Equivalent	NIL	CANEC25001596901
4	Copper Wire	Polyurethane wire @*xHBUEW/180	SUNTEK or Equivalent	E234867	A2240566852101001E
5	Copper Wire	enamelled wire FIW3	SUNTEK or Equivalent	E234867	A2250724926101009E
6	PI Film	Brown film	HUAQIANG or Equivalent	E251243	SHAEC25028380405
7	Epoxy	H500	HONGZAN or Equivalent	NIL	CANEC25010350308
8	Solder	Lead free solder	BAIMU or Equivalent	NIL	SZXEC25001772201

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8.Recommended Temperature Conditions of Air Reflow Soldering

Test Solderability Temperature Profile



Profile Feature	Pb-Free Assembly
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		HP4284A		DCR METER 131			HP4284A		CS2670A	
NO	Inductance	LK-Inductance	DCR				Turns Ratio	Hi-Pot		
	at 100kHz,0.1V	at 100kHz,0.1V	at 25°C				at 100kHz,0.1V	3mA.1S	3mA.1S	
	L(2-5)	LK(2-5) Tie others	R(2-5)	R(1-6)	R(7-11)	R(8-12)	(2-5):(1-6):(7-11):(8-12)	Pri. To Sec.	Win. To Core	
	100uH±20%	0.8uH MAX.	63mΩ MAX.	123mΩ MAX.	12.5mΩ MAX.	12.5mΩ MAX.	12:6:5:5;±3%	2250VDC	600VDC	
1										
2										
3										
4										
5										
MIN.	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				
AVG.	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!				
Result	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	
Overall Dimensions Test						Measurement Tools: Caliper (Unit:mm)				
NO	A	B	C	D	E					
	18.2MAX.	18.0MAX.	11.0MAX.	0.5±0.1	2.54±0.3					
1										
2										
3										
4										
5										
MIN.	0.00	0.00	0.00	0.00	0.00					
MAX.	0.00	0.00	0.00	0.00	0.00					
AVG.	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!					
Result	Passed	Passed	Passed	Passed	Passed					

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