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Customer name : Electronic source  
Customer part no. : ES00234  
Drawing no. :  
Description : GATE Drive Transfomer EE-19  
KV no. : 17032  
Revision : 00



Issue date  
1 February 2017

Check by  
*[Signature]*

Approve by  
*[Signature]*

Revise record.

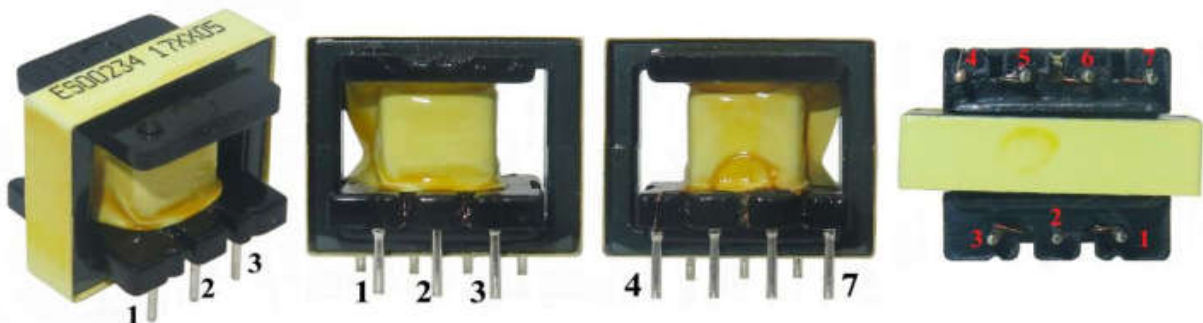
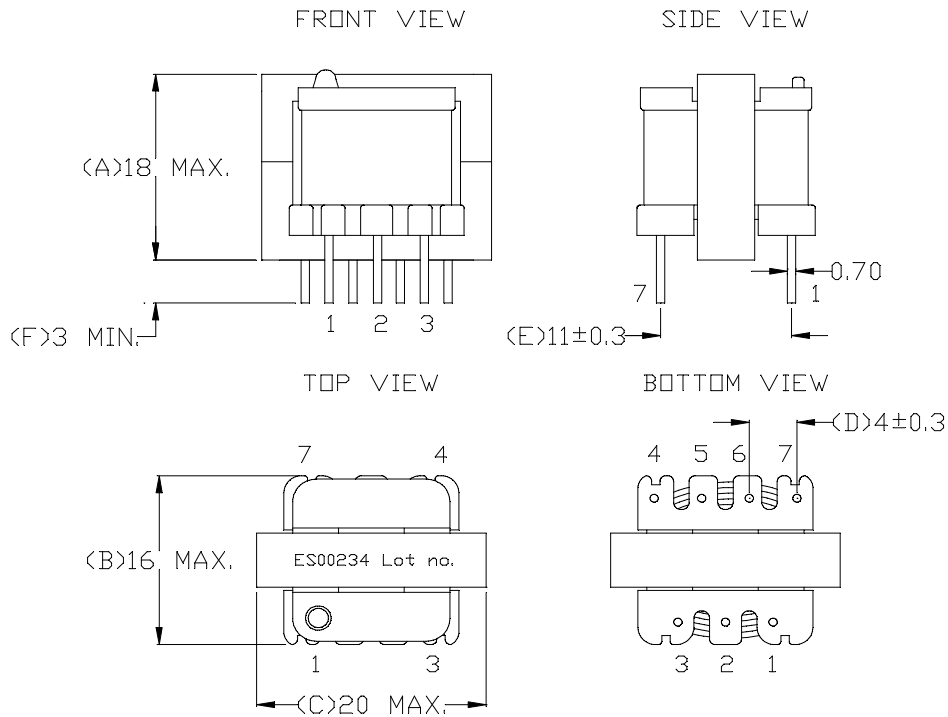
Rev.	Date	Revise description	Page.



**1. Components list.**

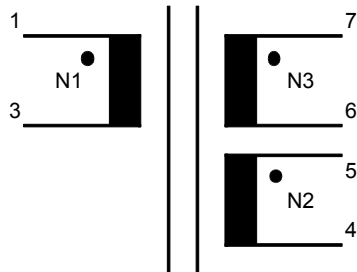
<u>Item.</u>	<u>Material.</u>	<u>Manufacturer.</u>
1. Bobbin	Phenolic (UL94V-0)	Chang chun plastic co., ltd UL no. E59481(S). or equivalent.
2. Core EE19/16/5	PC40	Ou Ge or equivalent.
3. Copper wire	Polyurethane enameled copper (130 deg.c).	Thai hitachi enamel wire co.,ltd. UL no.E137472 Pacific-Thai electric wire & cable co.,ltd. UL no. E142108. or equivalent.
4. Insulation tape	Polyester #1350F-1 (130 deg.c) Polyester #35660 (130 deg.c)	3M UL No.E17385. Symbio INC UL.no. E50292.
5. Solder bar	Sn / Cu	Ultra core or equivalent.
6. Varnish	Ultimeg 2000/380	A.E.V PLC UL no. E220579 or equivalent.

**The drawing and dimension in millimeter unit.**





## 2. Schematic diagram and winding instruction.



- N1 Pin 1 – 3 = Wire 0.10 mm. / 40 Ts.  
Insulation 2 Ts.
- N2 Pin 5 – 4 = Wire 0.10 mm. / 40 Ts.  
Insulation 2 Ts.
- N3 Pin 7 – 6 = Wire 0.10 mm. / 40 Ts.  
Insulation 2 Ts.

Note : Use CORE NO – NO

## 3. Electricals specification and test data (at 25 deg.c).

Item	Pin no.	Specification	Test data												
			1	2	3	4	5								
Inductance (L) At 1KHz, 0.25V	1 – 3	1.30 mH Min.	2.36	2.29	2.47	2.45	2.45								
DC-Resistance (DCR)	1 – 3	2.90 Ohm Max.	2.16	2.17	2.19	2.22	2.33								
Voltage ratio test. I/P 1-3, 20KHz, 1Vrms	5 – 4	0.987 – 1.012 Vrms	0.999	0.999	0.999	0.999	0.999								
	7 – 6	0.987 – 1.012 Vrms	0.999	0.999	0.999	0.999	0.999								
Hi-Potential test. 1mA 50Hz	Apply 1500Vac between N1 to N2,N3 for 2 sec. Apply 1500Vac between wire to core for 2 sec.										Passed	Passed			
Phase check follow to schematic diagram.										Passed					

### Mechanical test

#### Sample no.

	A	B	C	D	E	F
1	16.72	14.99	19.40	3.90	11.00	3
2	16.69	14.95	19.39	3.90	10.90	3
3	16.72	14.96	19.40	3.94	10.97	3
4	16.73	14.98	19.39	3.99	11.00	3
5	16.72	15.00	19.40	3.99	10.94	3

Test date : 3 February 2017

Test by : Apiwat