

KV ELECTRONICS CO., LTD.

988 MOO 2, SOI THETSABAN BANG PU 60

TUMBOL THAI BAN , AMPHUR MUANG

SAMUTPRAKARN 10280

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E-MAIL : kvea@loxinfo.co.th

Customer name : Electronic source

Customer part no. : ES00228

Drawing no. :

Description : Transformer EE-19

KV no. : 16328

Revision : 01

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Issue date
19 September 2016

Check by

Approve by

Revise record.

Rev.	Date	Revise description	Page.
01	9-Mar-17	- Add remove pin 4,5,7,8,9 in drawing.	2

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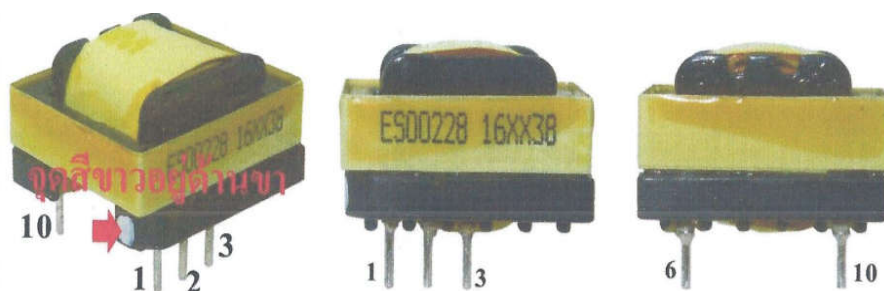
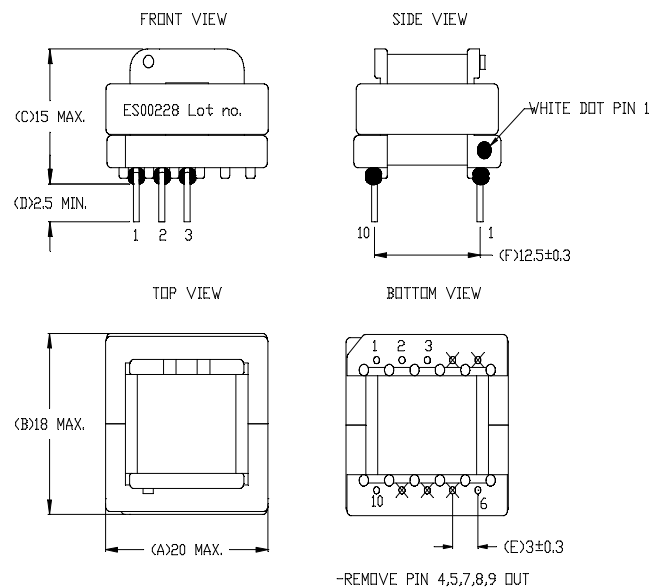
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**1. Components list.**

<u>Item.</u>	<u>Material.</u>	<u>Manufacturer.</u>
1. Bobbin EE-19	Phenolic (UL94V-0)	Chang chun plastic co., ltd UL no. E59481(S). or equivalent.
2. Core EE-19/16/5	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.
4. T.I.W. wire	Tripple insulating wire (130 deg.c)	Dah Jin Technology.co.,ltd UL no. E236542. TA YA Electric wire & cable co.,ltd. UL no. E225803. or equivalent.
5. Insulation tape	Polyester #1350F-1 (130 deg.c) Polyester #35660 (130 deg.c)	3M UL No.E17385. Symbio INC UL.no. E50292.
6. Kapton tape	Polyimide film insulating tape with silicone base adhesive, Cat. No. KA180K	Symbio Inc. UL No.E50292.
7. Solder bar	Sn / Cu	Ultra core or equivalent.
8. Varnish	Ultimeg 2000/380	A.E.V PLC UL no. E220579 or equivalent.

The drawing and dimension in millimeter unit.

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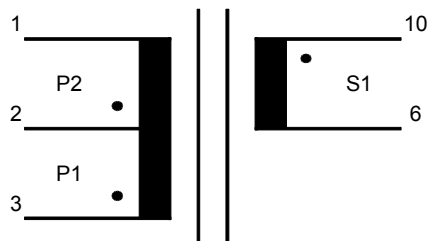
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**2. Schematic diagram and winding instruction.**

- P1 Pin 3 – 2 = Wire 0.28 mm. / 41 Ts.
Insulation 3 Ts.
- S1 Pin 10 – 6 = TEX-E Wire 0.37 mm. X2 / 10 Ts.
Insulation 3 Ts.
- P2 Pin 2 – 1 = Wire 0.28 mm. / 40 Ts.
Insulation 3 Ts.

Note : S1 Use kapton tape**3. Electricals specification and test data (at 25 deg.c).**

Item	Pin no.	Specification	Test data									
			1	2	3	4	5					
Inductance (L) At 10KHz, 1V	3 – 1	902.00 uH +/-10%	895.30	920.80	910.00	923.20	914.90					
Leakaged Inductance At 10KHz, 1V (LK) (Shorted 6,10)	3 – 1	22.54 uH Max.	16.08	15.15	15.52	15.73	15.15					
DC-Resistance (DCR)	3 – 1	0.95 Ohm Max.	0.76	0.75	0.76	0.75	0.75					
Voltage ratio test. I/P 3-1, 20KHz, 1Vrms	10 – 6	0.117 – 0.129 Vrms	0.123	0.123	0.128	0.127	0.127					
Hi-Potential test. 1mA 50Hz	Apply 1500Vac between P1,P2 to S1 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	19.20	17.34	13.25	3.5	2.97	12.62
2	19.43	17.46	13.17	3.5	2.97	12.65
3	19.50	17.40	13.22	3.5	2.97	12.61
4	19.49	17.31	13.33	3.5	2.92	12.59
5	19.77	17.39	13.20	3.5	2.93	12.64

Test date : 23 September 2016

Test by : Apiwat