

KV ELECTRONICS CO., LTD.

988 MOO 2, SOI THETSABAN BANG PU 60

TUMBOL THAI BAN , AMPHUR MUANG

SAMUTPRAKARN 10280

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Customer name : Electronic source

Customer part no. : ES00022

Drawing no. :

Description : Transformer EE-16

KV no. : 09058

Revision : 03

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Issue date
22 January 2009

Check by

Approve by

Revise record.

Rev.	Date	Revise description	Page.
01	07-Feb-12	- Add ferrite core EE-16 Material DMR40 from Dmegc is alternative part in components list.	2
02	09-Aug-18	- Add kapton tape in components list.	2
03	20-Nov-18	- Change from Primary Leakage (LK) = 62.60 uH Max. to Primary Leakage (LK) = 100.00 uH Max.	3

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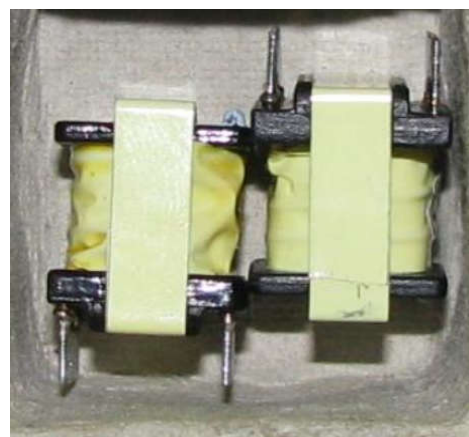
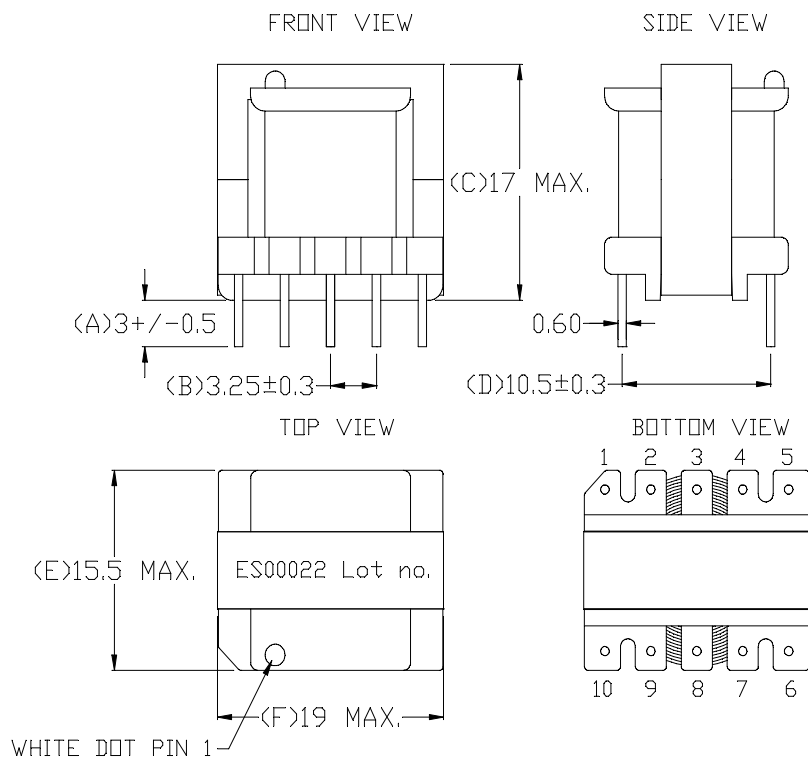
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1. Components list.

Item.	Material.	Manufacturer.
1. Bobbin	Phenolic (UL94V-0)	Chang chun plastic co., ltd UL no. E59481.
2. Core EE-16 Core EE-16	TP-4 DMR40	TDG co., Ltd. Dmegc.
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.
5. Insulation tape	Polyester #1350F (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 .

The drawing and dimension in millimeter unit.



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

N1 Pin 3 - 1 = Wire 0.16 mm / 133 Ts.

Insulation 3 Ts.

N2 Pin 9,10 - 6,7 = T.I.W Wire 0.45 mm / 14 Ts.

Insulation 2 Ts.

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

Item	Pin no.	Specification	Test data									
			1	2	3							
Inductance (L) At 10KHz, 1V	3 – 1	2.086 mH +/-10%	1.98	2.11	1.98							
Primary Leakage (LK) At 10KHz,1V (shorted pin 9,6)	3 – 1	100.00 uH Max	53.84	54.94	52.87							
DC-Resistance (DCR)	3 – 1	3.36 Ohm Max.	2.87	2.88	2.84							
Voltage ratio test I/P 3-1,20kHz,1Vrms	9 – 6	0.101 - 0.109 vrms	0.105	0.105	0.105							
Hi-Potential test. 1mA 50Hz	Apply 3000Vac between N1 to N2 for 2 sec. Apply 1500Vac between N1,N2 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	3	3.13	15.37	10.53	13.12	16.55
2	3	3.13	15.30	10.56	12.96	16.58
3	3	3.20	15.33	10.56	12.97	16.55

Test date : 8 February 2012

Test by : Apiwat