

KV ELECTRONICS CO., LTD.

988 MOO 2, SOI THETSABAN BANG PU 60

TUMBOL THAI BAN , AMPHUR MUANG

SAMUTPRAKARN 10280

TEL. +66(0) 2701-2969 , FAX +66(0) 2701-2966

E-MAIL : kvea@loxinfo.co.th

Customer name : Electronic source

Customer part no. : ES00254

Drawing no. :

Description : Transformer EFD-10

KV no. : 18273

Revision : 00

Page 1 of 4

Issue date
27 August 2018

Check by

Approve by

Revise record.

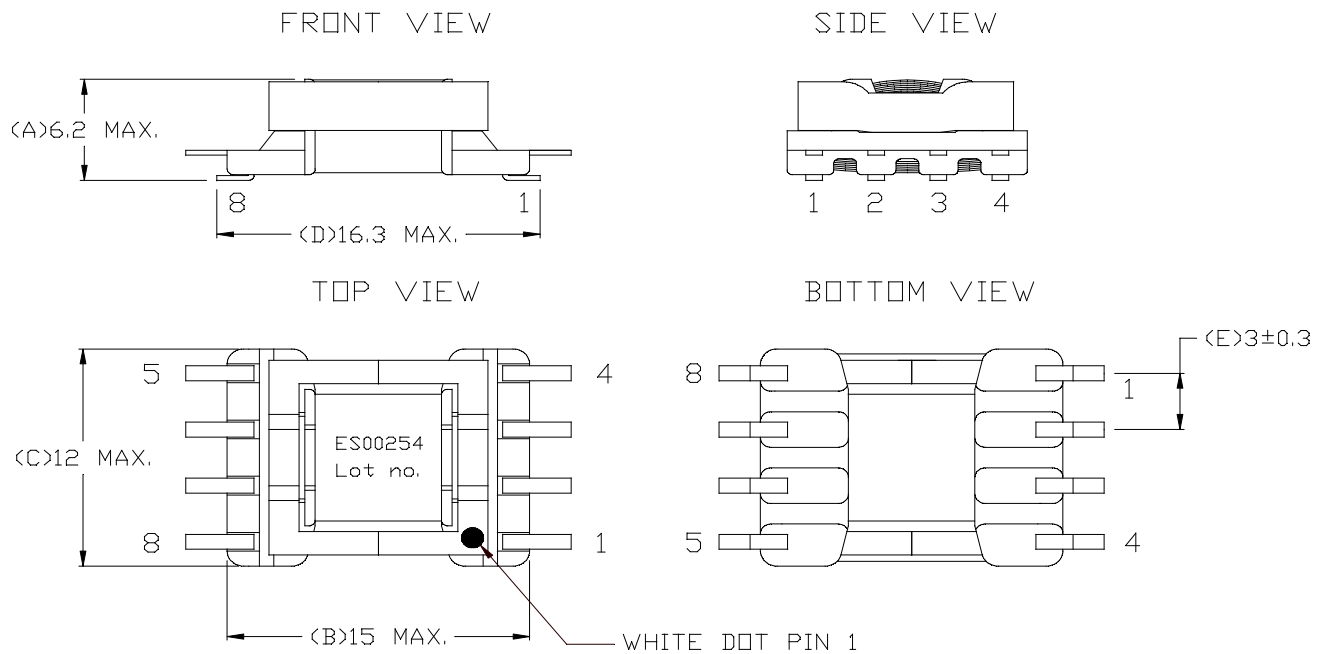
Rev.	Date	Revise description	Page.



1. Components list.

<u>Item.</u>	<u>Material.</u>	<u>Manufacturer.</u>
1. Bobbin EFD-10	PM-9630	Sumitomo UL no. E41429. or equivalent.
2. Core EFD10.5/10/3	TP4	TDG.
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	Ultimég 2000/380	A.E.V PLC UL no. E220579 or equivalent.

The drawing and dimension in millimeter unit.



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Page 3 of 4



2. Schematic diagram and winding instruction.



P1 Pin 1 – 4 = Wire 0.10 mm. / 181 Ts.
Insulation 1 Ts.

S1 Pin 5 – 8 = Wire 0.45 mm. / 7 Ts.
Insulation 1 Ts.

Note :

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	1 – 4	2.00 mH +/- 10%	2.03	2.05	2.10	2.06	2.13					
Leakaged Inductance At 10kHz, 1V (LK) (Shorted 5,8)	1 – 4	150.00 uH Max.	112.03	99.56	112.14	103.26	106.09					
DC-Resistance (DCR)	1 – 4	8.50 Ohm Max.	6.73	6.75	6.78	6.71	6.75					
Voltage ratio test. I/P 1-4, 20KHz, 1Vrms	5 – 8	0.035 – 0.041 Vrms	0.038	0.038	0.038	0.038	0.038					
Hi-Potential test. 1mA 50Hz	Apply 500Vac between P1 to S1 for 2 sec. Apply 500Vac 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
1	5.82	14.55	11.69	15.75	2.91
2	6.03	14.65	11.66	15.77	2.97
3	6.16	14.55	11.68	15.73	2.94
4	5.99	14.56	11.69	15.71	2.92
5	6.02	14.58	11.65	15.67	3.01

Test date : 29 August 2018

Test by : Apiwat

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Page 4 of 4

**4. Product condition****Handling :**

Should prevent contamination by the ambient environment from dust, corrosive materials, humidity/water, or other chemicals (containing chlorine or phosphates). Gloves are a better choice to prevent contamination.

Shelf Life :

Storage Life has a minimum 1 year with below condition

- o Temperature 5° C to 30° C.
- o Relative humidity (RH) below 60%
- o Original packaging

Installation :

Perform as assembly manufacturer's procedure

Disposal procedure :

Product must NEVER be disposed of in household waste. To reduce environmental impacts, bring the product to a certified recycling depot at the end of its life.