

**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. : ES00229  
 Drawing no. :  
 Description : Transformer Inverter Output EE-42  
 KV no. : 16329  
 Revision : 02



Issue date  
 19 September 2016

Check by

Approve by

Revise record.

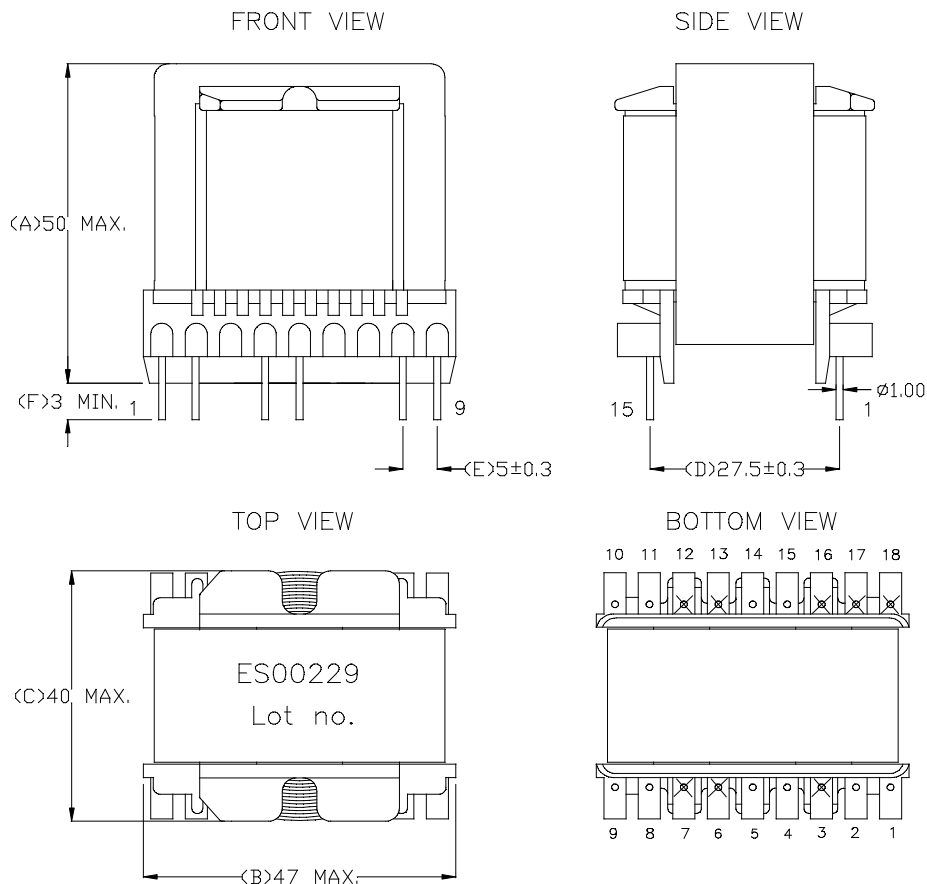
Rev.	Date	Revise description	Page.
01	9-Mar-17	- Add remove pin 3,6,7,12,13,16,17,18 in drawing.	2
		- Change from Inductance (L) Pin 4.5 – 8,9 = 21.86 mH ± 25% to Inductance (L) Pin 4.5 – 8,9 = 10.00 mH Min.	3
02	9-Oct-17	- Change from core EE-42B-Z Material MB4 Manufacturer JFE to core EE4220 Material PC95 Manufacturer Ou Ge in components list.	2



**1. Components list.**

<u>Item.</u>	<u>Material.</u>	<u>Manufacturer.</u>
1. Bobbin EE-42	Phenolic (UL94V-0)	Chang chun plastic co., ltd UL no. E59481(S). or equivalent.
2. Core EE4220	PC95	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. Insulation tape	Polyester #1350F-1 (130 deg.c) Polyester #35660 (130 deg.c)	3M UL No.E17385. Symbio INC UL.no. E50292.
5. Silicone glass fiber tube	SRG-514 (180 deg.c / 1800V)	Jiangyin Huaqiang Rubber & Plastics Co.,ltd. UL no.E231589 or equivalent.
6. Solder bar	Sn / Cu	Ultra core or equivalent.
7. Varnish	Ultimeg 2000/380	A.E.V PLC UL no. E220579 or equivalent.

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



-REMOVE PIN 3,6,7,12,13,16,17,18 OUT

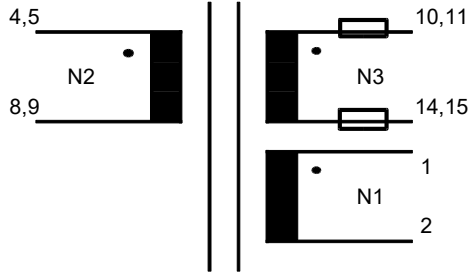
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**2. Schematic diagram and winding instruction.**



- N1 Pin 1 – 2 = Wire 0.65 mm. / 8 Ts.  
Insulation 3 Ts.
- N2 Pin 4,5 – 8,9 = Wire 0.65 mm. X2 / 58 Ts.  
Insulation 3 Ts.
- N3 Pin 10,11 – 14,15 = Wire 0.65 mm. X8 / 8 Ts.  
Insulation 3 Ts.

**Note : Use CORE NO – GAP  
 N3 Use silicone glass fiber tube**

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

Item	Pin no.	Specification	Test data													
			1	2	3											
Inductance (L) At 10KHz, 1V	4,5 – 8,9	10.00 mH Min.	25.61	25.97	28.30											
DC-Resistance (DCR)	4,5 – 8,9	160.00 mOhm Max.	126.91	127.55	126.95											
Voltage ratio test. I/P 4-8, 20KHz, 1Vrms	1 – 2	0.129 – 0.146 Vrms	0.137	0.137	0.137											
	10 – 14	0.129 – 0.146 Vrms	0.137	0.137	0.137											
Hi-Potential test. 1mA 50Hz	Apply 3000Vac between N1,N2 to N3 for 2 sec.										Passed					
	Apply 1500Vac between wire to core for 2 sec.										Passed					
Phase check follow to schematic diagram.												Passed				

Mechanical test	A	B	C	D	E	F
Sample no.						
1	48.65	46.05	39.64	27.64	4.87	4
2	48.99	46.08	39.59	27.38	4.90	4
3	48.67	46.04	39.37	27.48	4.90	4

Test date : 11 October 2017  
 Test by : Apiwat