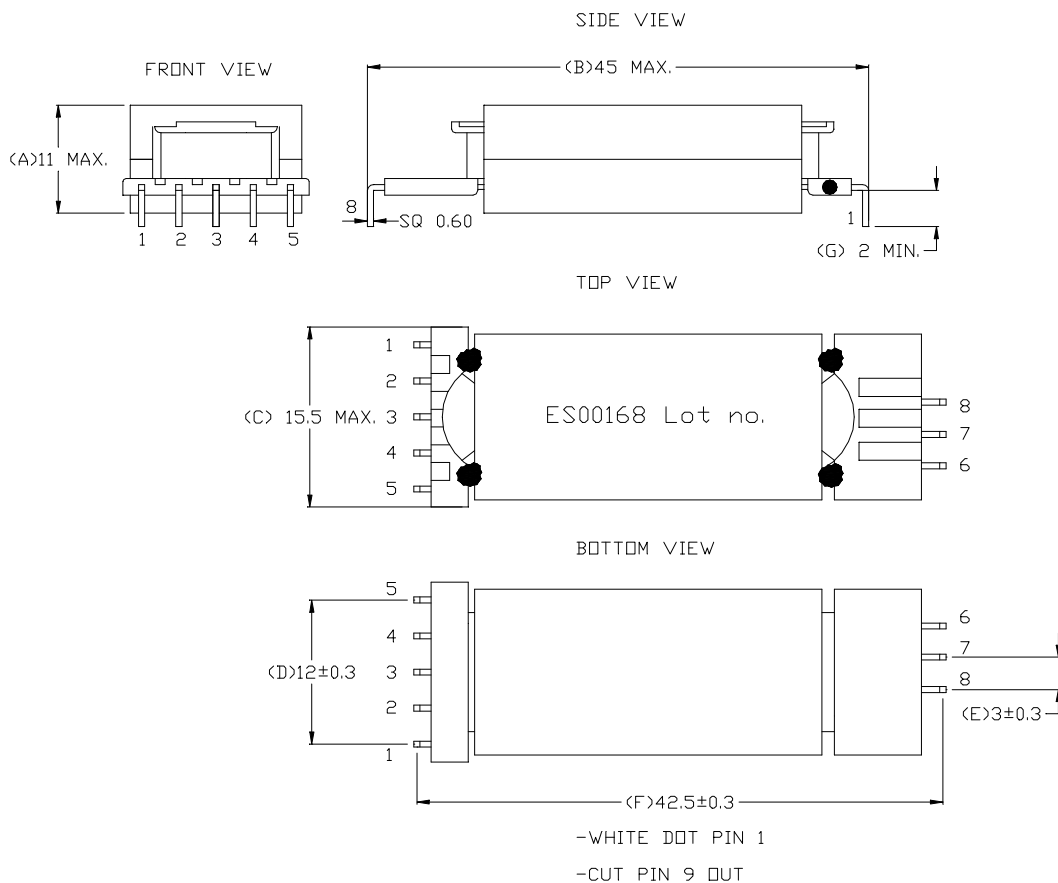


**1. Components list.**

<u>Item.</u>	<u>Material.</u>	<u>Manufacturer.</u>
1. Bobbin EDR2813	Phenolic (UL94V-0)	Chang chun plastic co., ltd UL no. E59481(S).
2. Core ED28/10/13.4	Ferrite	China.
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. T.I.W. wire	Tripple insulating wire (130 deg.c)	Dah Jin co.,ltd UL no. E236542. Furukawa UL no. E206440.
5. Insulation tape	Polyester film insulating tape #1350F-1 Polyethylene-Terphthalate film insulating Tape #35660 (130 deg.c Flame retardant)	3M UL No.E17385 Symbio INC UL no. E50292
6. Glue loctile product 326	Single component urethane mathacrylate	Loctile corporation.
7. Epoxy Adhesive & Sealant	EMS 703-60	Engineered Materials Systems.
8. Solder bar	Sn / Cu	Ultra core or equivalent.

The drawing and dimension in millimetre unit.



KV ELECTRONICS CO., LTD.

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TUMBOL THAI BAN , AMPHUR MUANG

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E-MAIL : kvea@loxinfo.co.th

Customer name : Electronic source

Customer part no. : ES00168

Drawing no. :

Description : Transformer EDR-28

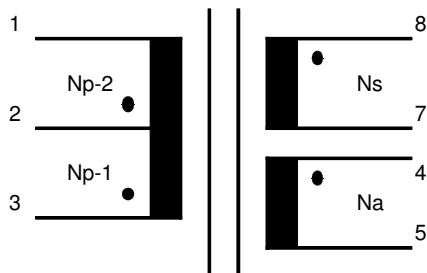
KV no. : 14026

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2. Schematic diagram and winding instruction.



- Np-1 Pin 3-2 = Wire 0.20 mm. / 28 Ts.
Insulation 1 Ts.
- Na Pin 4-5 = Wire 0.12 mm. X2 / 5 Ts.
Insulation 2 Ts.
- Ns Pin 8-7 = TEX-E Wire 0.20 mm. X2 / 12 Ts.
Insulation 2 Ts.
- Np-2 Pin 2-1 = Wire 0.20 mm. / 14 Ts.
Insulation 2 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	3 – 1	450.00 uH +/-10%	449.10	457.70	469.90	466.90	454.20					
Leakage Inductance (LK) At 10KHz, 1V (Shorted 4,5,7,8)	3 – 1	22.00 uH Max.	15.30	16.30	13.20	13.60	15.60					
DC-Resistance (DCR) @25 DEG.C	3 – 1	1.90 Ohm Max.	1.52	1.52	1.52	1.53	1.53					
Voltage ratio test. I/P 3-1, 20KHz, 1Vrms	4 – 5	0.107 – 0.130 vrms	0.118	0.117	0.119	0.120	0.117					
	8 – 7	0.273 – 0.297 vrms	0.288	0.279	0.290	0.288	0.287					
Hi-Potential test. 1mA 50Hz	Apply 1500Vac between Np-1,Np-2,Na to Ns 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	G
1	9.93	42.92	15.08	11.79	3.03	42.40	3
2	9.90	42.87	15.00	11.87	3.03	42.32	3
3	9.93	43.09	15.14	11.98	2.93	42.42	3
4	9.93	42.97	15.05	11.94	2.94	42.44	3
5	9.92	43.04	15.10	11.95	2.88	42.56	3

Test date : 20 January 2014

Test by : Apiwat