

CUSTOMER : Electronics Source Co., Ltd.

SPECIFICATION

DESCRIPTION : SWITCHING TRANSFORMER

CUSTOMER PART NO. : VRKES0000

VRK PART NO. : VRKEE19-1301uH

DATE : September 29, 2025

CUSTOMER'S APPROVAL

*** SUPPLIER**

VRK SPECTRUM CO.,LTD.

APPROVED BY	CHECKED BY	PREPARED BY
		



VRK SPECTRUM CO.,LTD.

212, 218, 220 ISSARAPAB WATKALLAYA THONBURI , BANGKOK 10600 THAILAND

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VRK SPECTRUM CO., LTD.

AMENDMENT RECORD

DOCUMENT NO :

CUSTOMER : Electronics Source Co., Ltd.

DOCUMENT TITLE : SPEC VRK

PART NO : VRKES0000

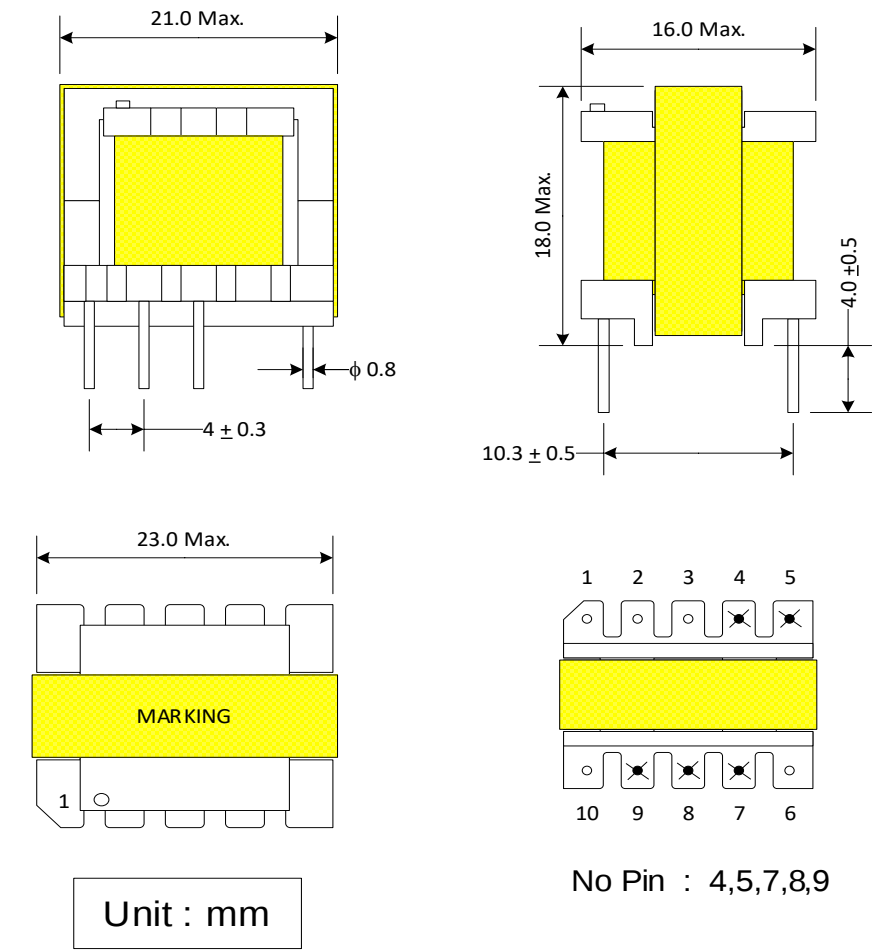
PART NAME : SWITCHING TRANSFORMER

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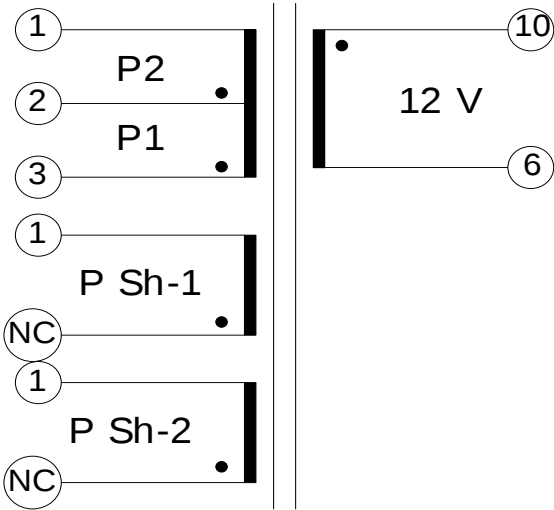
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1. Winding Specificaion				
Order of winding	Terminal	Wire size (ϕ)	Number of turns	Core P1 P SH-1 12 V P SH-2 P2
1	P1 (3 - 2)	2-UEW ϕ 0.22 mm.	63	
2	P SH-1 (NC - 1)	2-UEW ϕ 0.16 mm.*4	11	
3	12 V (10 - 6)	Tex-E wire ϕ 0.50 mm.	12	
4	P SH-2 (NC - 1)	2-UEW ϕ 0.16 mm.*4	11	
5	P2 (2 - 1)	2-UEW ϕ 0.22 mm.	31	
2. Electric Characteristic				
No.	Item	Condition	Specification	
1	Inductance	20 kHz, 1Vrms. (3 - 1)	1301 uH $\pm$ 10%	
2	DC Resisance at 25 $^{\circ}$ C	(3 - 1)	1.65 Ω Max.	
		(10 - 6)	55 m Ω Max.	
3	Leakage Inductance	32.53 uH Max. (all sec.terminal shorted)		
4	Hi-Potential test. 2mA, 50Hz	Apply 3000Vac between Pri. to Sec. for 1sec.		
5	Insulation Class.	Class B (130 $^{\circ}$ C)		

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3. Configguration & Dimension



Connection



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4. Structure 5. Material list				
Item	Part Name	Materials	Manufacturers	UL File No.
1	Bobbin	Phenolic compound T375J, T375HF, PM-9820	Chang Chun Plastics Co.,Ltd. Sumitomo bakeite Co.,Ltd. Or Other Equivalent Manufacturer	E59481 E41429
2	Core	Ferrite core Type, FW40 EE19/16/5A SMP40 EE19/8/5A MB3 EE-19A	Haining Ferriwo Electronics Co. Ltd. Anhui Sinomag Metal Technology Co., Ltd JFE Ferrite (Thailand) Co., Ltd. Or Other Equivalent Manufacturer	- - -
3	Primary winding	Polyuerthane Enamelled Copper Wire	Pacific - Thai Electric Wire & Cable	E142108
4	P Sh-1,2 winding	Copper wire (2-U EW)	Zhejiang Hongbo Technology Co., Ltd. Advance Metal Industry Co., Ltd. Or Other Equivalent Manufacturer	E221719 E305953
5	12 V winding	Triple Insulation Winding wire TILW-B, 130 ^o C	Penglai City Daxindian Lianqing Electric Team Work International Co. Or Other Equivalent Manufacturer	E322907 E321186
6	Winding wrapped Insulation	Polyester film tape 0.025T MY91ZH	Symbio Inc. Jingjiang Yahua Electronic Technology Co., Ltd. Or Other Equivalent Manufacturer	E50292 E165111
7	Core Outer Wrapped Insulation	CT-281		
8	Solder (Lead free)	Tin 100% (Sn 100%) U4106 (Sn 100%)	Koki Products Co.,Ltd Ultracore Co.,Ltd. Or Other Equivalent Manufacturer	- -
9	Impregnation Varnish	35F T-4260	NPV Co.,Ltd. Suzhou Taihu Electric Advanced Material Co. Ltd. Or Other Equivalent Manufacturer	- E228349

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6. Marking

MARKING

VRK PART NO. : VRKEE19-1301uH

= **VE19-1301**

VE19-1301 2591

DATE

Day :

1 – 10 = 1

11 – 20 = 2

21 – 31 = 3

MONTH

JAN - SEP = 1 - 9

OCT = O

NOV = N

DEC = D

YEAR

2025 = 25

2026 = 26