

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

CUSTOMER :
ISSUE : 1
PART NO. :
KV NO. : 05380
REVISION : 03
PART NAME : HI-VOLT TRANSFORMER

SPEC SHEET 2 OF 3

1. COMPONENTS , MATERIAL AND MANUFACTURER LIST.

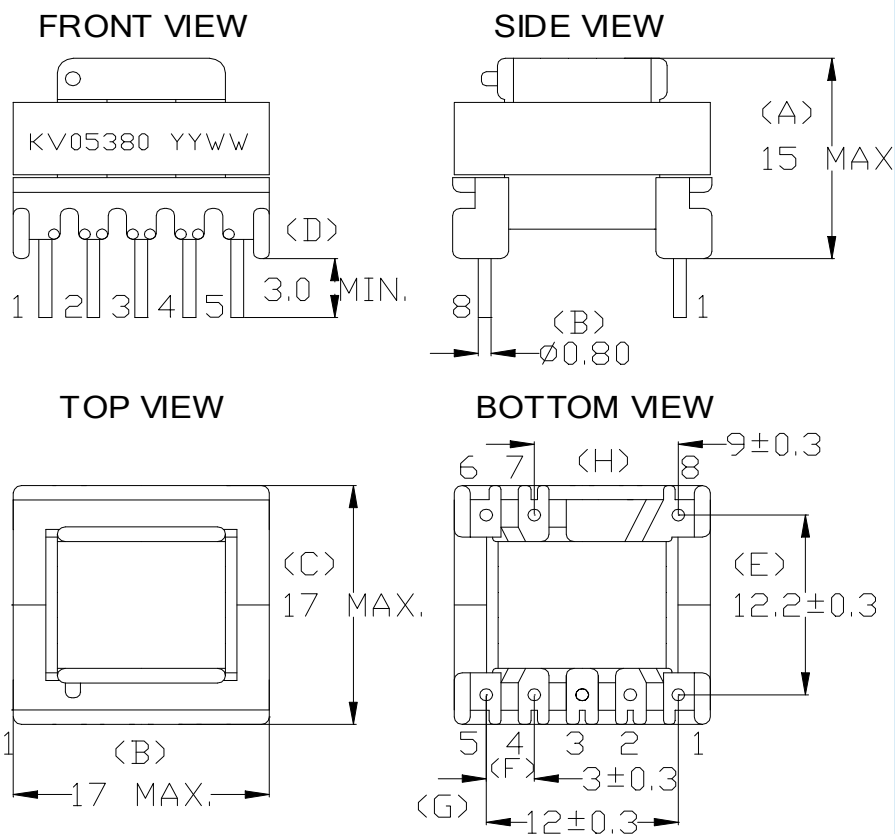
<u>ITEM.</u>	<u>COMPONENTS.</u>	<u>MATERIAL.</u>	<u>MANUFACTURER.</u>
1.	BOBBIN	PHENOLIC (UL94V-0)	HITACHI CHEMICAL CO.,LTD. UL NO. E42956R). OR EQUIVALENT,
2.	CORE EE-16A-Z	MB3	JFE FERRITE OR EQUIVALENT.
3.	COPPER WIRE - DIA 0.04 mm - DIA 0.15 mm	POLYURETHANE ENAMELLED COPPER (130 DEG.C) 1 - UEW	THAI HITACHI ENAMEL WIRE CO.,LTD. UL NO.E62342(S) SIAM PACIFIC ELECTRIC WIRE & CABLE CO.,LTD. UL.NO. E142108 (S) OR EQUIVALENT.
4.	INSULATION TAPE	POLYESTER FILM WITH ACRYLIC ADHESIVE (130 DEG.C)	TYPE # 35660 FOUR PILLAR ENTERPRISE CO.,LTD UL.NO.50292(S) OR EQUIVALENT.
5.	VARNISH	ULTIMEG 2000/380	A.E.V PLC UL NO. E220579 . OR EQUIVALENT,

2. ELECTRICAL SPECIFICATIONS :

- 2.1 INDUCTANCE (L) @ 1KHz, 1 Vrms 1 – 2 = 36 uH +/-25%
- 2.2 DC-RESISTANCE (DCR) @ 25 DEG.C 1 – 2 = 0.38 OHMs MAX.
4 – 5 = 0.65 OHMs MAX.
8 – 6 = 1.40 KOHMs MAX.
- 2.3 VOLTAGE RATIO AND PHASE TESTING
- 2.4 HI-POTENTIAL TEST
- APPLY AC 2500 Vrms TRIP CURRENT 1 mA 50 Hz BETWEEN PRI TO SEC FOR 2 SECONDS.
 - APPLY AC 500 Vrms TRIP CURRENT 1 mA 50 Hz BETWEEN SEC TO SEC FOR 2 SECONDS.
 - APPLY AC 2500 Vrms TRIP CURRENT 1 mA 50 Hz BETWEEN WIRE TO CORE FOR 2 SECONDS.
- 2.5 IMPULSE TEST
- APPLY AC 2500 Vrms BETWEEN 8 - 6

3. PHYSICAL CHARACTERISTICS .

THE FIGURE OF EXTERNAL STRUCTURE AND DIMENSION IN MILIMETRE UNIT.

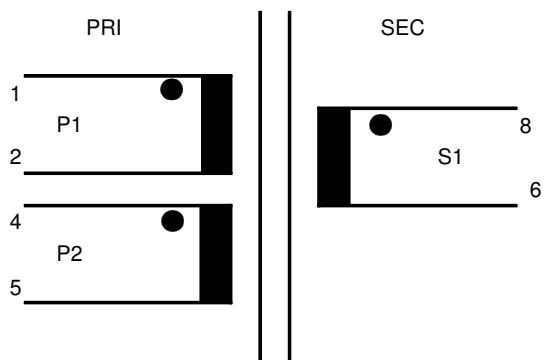


DIMENSION.

SAMPLE NO.	A	B	C	D	E	F	G	H
4.	14.43	16.49	16.10	4.00	12.21	3.02	11.98	8.96
5.	14.33	16.54	16.14	4.00	12.23	2.98	11.92	8.94

4. WINDING DESCRIPTION :

SCHEMATIC DIAGRAM.



WINDING CONSTRUCTION FROM INSIDE.

P1	PIN 1 – 2 = WIRE 0.15mm / 12 Ts INSULATION 4.25 Ts
P2	PIN 4 – 5 = WIRE 0.15mm / 18 Ts INSULATION 3.25 Ts
S1	PIN 8 – 6 = WIRE 0.04mm / 3000 Ts INSULATION 2.25 Ts

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TEST RECORD							
ITEM	PIN NO.	SPEC.	SAMPLE NO.				
			4	5			
INDUCTANCE(L) @ 1 kHz, 1Vrms	1 - 2	30.6 - 45.0 uH	45.0	45.0			
DC-RESISTNCE @ 25 DEG.C	1 - 2	0.38 OHMs MAX.	0.29	0.29			
	4 - 5	0.65 OHMs MAX.	0.52	0.50			
	8 - 6	1.40 KOHMs MAX.	1.13	1.10			
HI-POTENTIAL TEST 1 mA 50 Hz	APPLY AC 2500 Vrms TRIP CURRENT BETWEEN PIN PRI TO SEC FOR 2 SECONDS. APPLY AC 500 Vrms TRIP CURRENT BETWEEN PRI TO PRI FOR 2 SEC. APPLY AC 2500 Vrms TRIP CURRENT BETWEEN WIRE TO CORE FOR 2 SECONDS.					PASSED PASSED PASSED	
VOLTAGE RATIO TEST	@ 20 kHz , 1 Vrms					PASSED	
IMPLUSE TEST	APPLY AC 2500 Vrms BETWEEN 8 - 6					PASSED	
PHASE CHECK	PHASE CHECK FOLLOW TO SCHEMATIC DIAGRAM.					PASSED	

INSTRUMENT:

1.CHEN HWA CWV-902 WITHSTANDING VOLTAGE TESTER

2.HEWLETT PACKARD 4284A PRECISION LCR METER 20Hz-1MHz

TESTED BY : WUNCHAI

DATE : 11 June 2012

CHECKED BY : ANIRUT