

HR101809

Electrical Specification @25°C

RoHS Compliant (Pb Free)

Isolation: 1800Vrms 1mA 60S (Winding to Winding)

Isolation: 1000Vrms 1mA 60S (Pin1-2 to Pin4-3 ; Windings to Core)

Pin1-2 Inductance: 34.0 uH $\pm$ 10% @10KHz 1Vrms

Pin1-2 Leakage Inductance: 1.0 uH Max. @10KHz 1Vrms (shorted other windings)

Pin1-2 DC Resistance: 0.10 ohms Max.

Pin4-3 DC Resistance: 0.80 ohms Max.

Pin8-7 DC Resistance: 1.10 ohms Max.

Pin9-10 DC Resistance: 1.20 ohms Max.

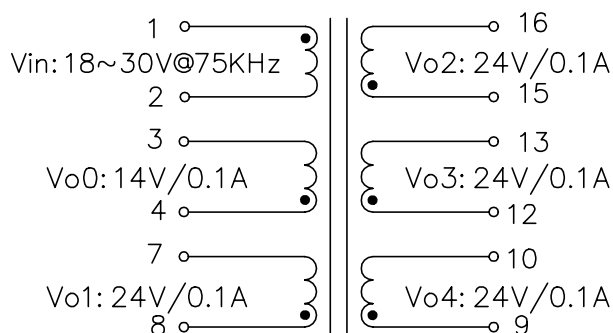
Pin12-13 DC Resistance: 1.30 ohms Max.

Pin15-16 DC Resistance: 1.40 ohms Max.

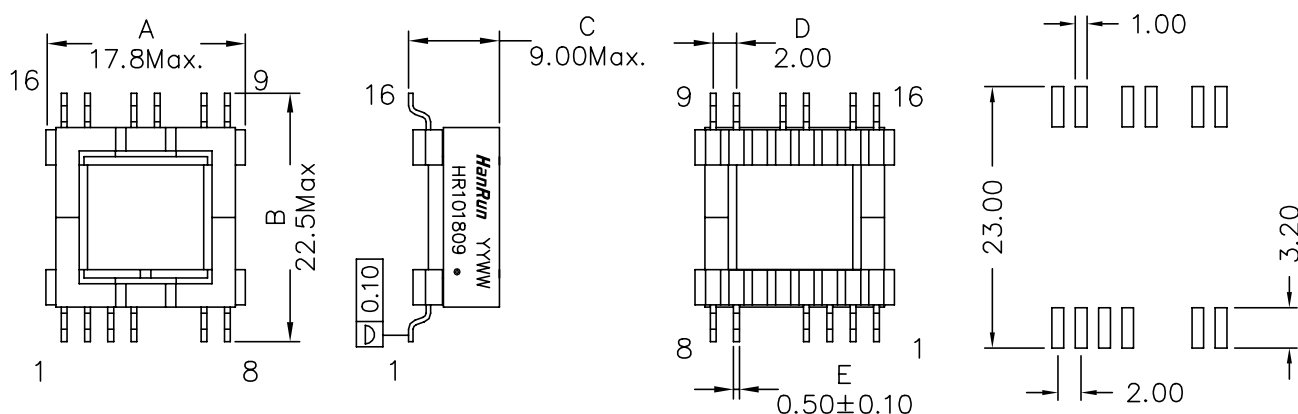
Turns Ratio: Pin1-2 : Pin4-3 : Pin8-7 : Pin9-10 : Pin12-13 : Pin15-16
 = 18 : 21 : 35 : 35 : 35 : 35

Input: 18-30V, Output: 14V/0.1A 24V/0.1A*4 @75KHz

Schematics



Mechanical Dimensions



Pin missing : #5; #6; #11; #14

(Suggested PCB Layout)

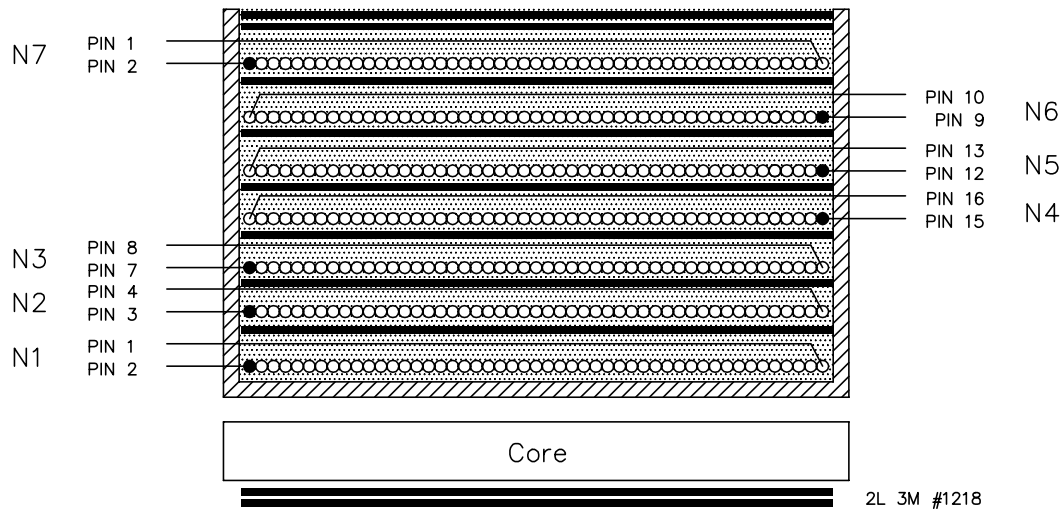
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MATERIAL LIST

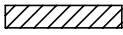
NO.	ITEM	MATERIAL GENERIC NAME	TRADE NAME	MANUFACTURES OF MATERIAL	TEMP CLASS	UL NO.
1.	CORE	FERRITE CORE	P4	ACME ELECTRONICS CORPORATION		
		Or EQUIVALENT				
2.	BOBBIN	PHENOLIC	PM9630	SUMITOMO BAKELITE CO LTD	94V-0	E41429
		Or EQUIVALENT				
3.	WIRE	POLYURETHANE	*UEWH	HUIZHOU CITY DENGGAODA ELECTROTECH CO LTD	180℃	E253843
		Or EQUIVALENT				
4.	TAPE	POLYESTER FILM INSULATING TAPE	201	SICHUAN DONGFANG INSULATING MATERIAL CO LTD	180℃	E229667
		POLYESTER FILM INSULATING TAPE	1218	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	180℃	E17385
		Or EQUIVALENT				
5.	EPOXY	EPOXY RESIN	G500	GUDAK CHEMISTRY TECH (DONGGUAN) LTD	94V-0	
		Or EQUIVALENT				
6.	VARNISH	VARNISH	BC-346A	JOHN C DOLPH CO	180℃	E317427
		Or EQUIVALENT				
7.	SOLDER	STANNUM BAR	Sn96.5Ag3Cu0.5	ANSON SOLDER & TIN PRODUCTS MADE LDT		
		Or EQUIVALENT				

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Transformer Construction and Winding



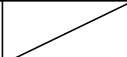
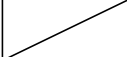
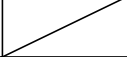
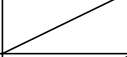
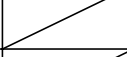
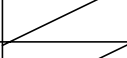
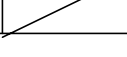
NOTE:

 BOBBIN

 VARNISH

 TAPE

Figure

No	COIL	MARGIN	TERMINAL	WIRE	TURNS	TAPE	Direction
1	N1		2--1	0.20mm*2P 1UEW	18T	1T	Clockwise
2	N2		3--4	0.11mm*2P 1UEW	21T	1T	Clockwise
3	N3		7--8	0.16mm*1P 1UEW	35T	1T	Clockwise
4	N4		15--16	0.16mm*1P 1UEW	35T	1T	Counter clockwise
5	N5		12--13	0.16mm*1P 1UEW	35T	1T	Counter clockwise
6	N6		9--10	0.16mm*1P 1UEW	35T	1T	Counter clockwise
7	N7		2--1	0.20mm*2P 1UEW	18T	2T	Clockwise