

HR600593F

Electrical Specification @25°C

RoHS Compliant (Pb Free)

Operating Temperature Range: -40°C ~ +125°C

Isolation: 6400VDC 1mA 60S (Primary to Secondary)

OCL: 150uH Min. ~ 450uH Max. @100KHz 100mV

Turns Ratio: 1 : 1 ±2% (Primary : Secondary)

PRI DC Resistance: 0.45 Ohms Max.

SEC DC Resistance: 0.80 Ohms Max.

PRI Leakage Inductance: 0.6uH Max. @100KHz 100mV SEC Shorted

Insertion Loss: -0.25dB Typ. @4MHz

Return Loss: -20dB Typ. @4MHz (Zout =100 ohms)

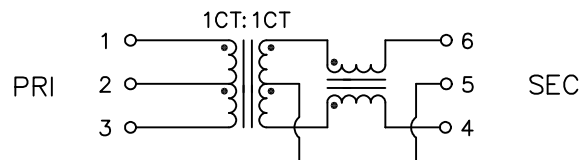
CMRR: -50dB Typ. @1MHz ~ 100MHz

Creepage Distance: 15mm Min.

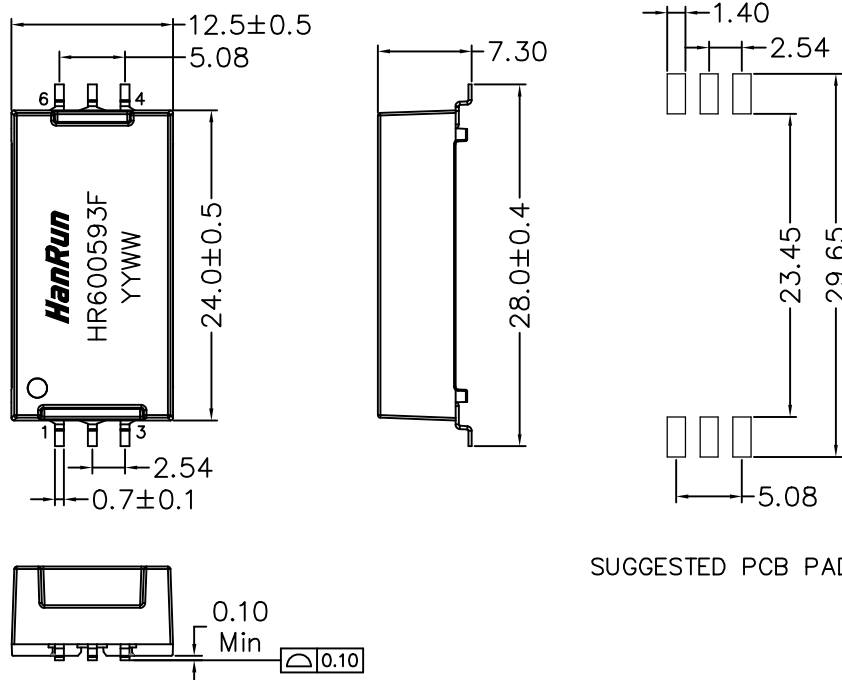
Working Voltage: 1500VDC.

Design Construction: Reinforced Insulation

Schematics



Mechanical Dimensions



SUGGESTED PCB PAD LAYOUT

Dimensions in mm

Unless otherwise specified, Tol.: .xx ±0.25

REV.: 02

1 of 3

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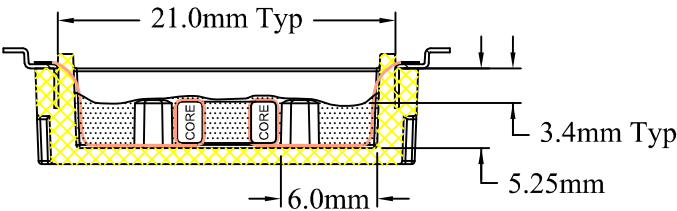
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MATERIAL LIST

No.	ITEM	MATERIAL GENERIC NAME	TRADE NAME	MANUFACTURES OF MATERIAL	TEMP CLASS	UL NO.
1.	CASE	DAP	WH-9100(G1)(G2)	WAH HONG INDUSTRIAL CORP	V-0	E150608
		OR EQUIVALENT				
2.	CORE	FEERRITE CORE	2H4G	TOMITA ELECTRIC CO.,LTD.	/	/
		FEERRITE CORE	3N7	TOMITA ELECTRIC CO.,LTD.	/	/
		OR EQUIVALENT				
3.	WIRE	POLYURETHANE	E&B-XXXH-3*	E&B TECHNOLOGY CO LTD	180°C	E315265
		OR EQUIVALENT				
4.	SILICONE	SILICONE	TSE3331K(y)	MOMENTIVE PERFORMANCE MATERIALS JAPAN L L C	V-0	E56745
		OR EQUIVALENT				

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Transformer Construction and Winding



Air clearance = 21.0mm Typ
Creepage distance = (3.4+6)*2 = 18.8mm Typ

NOTE:

 CASE

 WIRE

 Silicone

No.	COIL	TERMINAL	WIRE	TURNS	METHOD
1.	W1	P1-P2	ø0.12mm E&B-012H-3*	7T	CLOSE
		P2-P3		7T	
		P6-P5	ø0.12mm E&B-012H-3*	7T	
		P5-P4		7T	

Dimensions in mm
Unless otherwise specified, Tol.: .xx ±0.25
REV.: 02