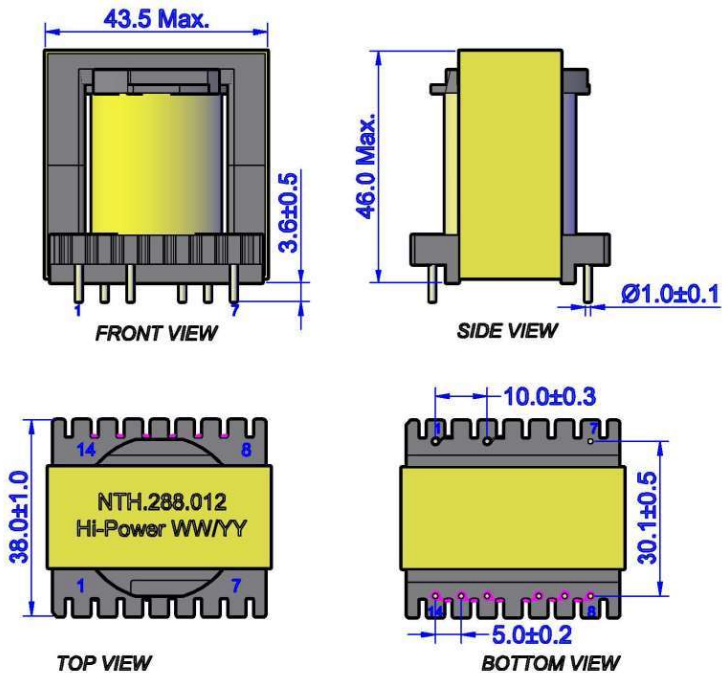
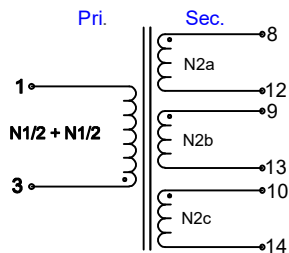


Doc.no.:	3X-002_06
Version:	V1.0
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Dimensions:[mm]

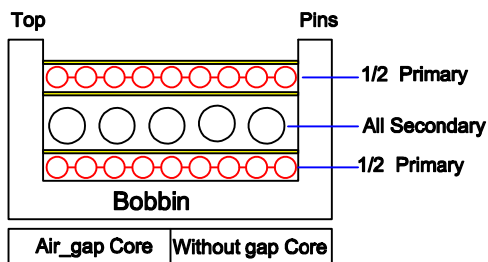


Electrical diagram



• WINDING START

Winding structure diagram



1. WINDING SPECIFICATIONS				
No.	Pins	Turns	Wire	Winding method
N1/2	3-Fly	12	0.1mmx100P TIW Litz wire	Evenly wound a layer of 12 turns, the wire does not need to be cut.
N2a	8-12	3	3x0.1mmx100P Litz wire	
N2b	9-13	3	3x0.1mmx100P Litz wire	
N2c	10-14	3	3x0.1mmx100P Litz wire	
N1/2	Fly-1	11	0.1mmx100P TIW Litz wire	
2. ELECTRICAL CHARACTERISITICS @25°C				
PARAMETER		TEST CONDIONS		VALUE
INDUCTANCE 3-1		100.0KHz, 1.0V, Ls		300.0uH±5%
Lk_INDUCTANCE		100.0KHz, 1.0V, Ls (Short all secondary winding)		1.0uH
DC RESISTANCE		TH2510B		mΩ Max
DIELECTRIC Pri-Sec		4000VAC/60S /50Hz		5mA
TURNS RATION		N1:N2		7.667:1±1%

Materials:

- Ferrite Core: ER42/42/20 Air_gap with inductance GP95
- Bobbin : ER42/20(7+7)Pins-Vertical PM9820 Removed pins2,4,5,6,11
- Litz Cu_wire: Ø0.1mmx100 1UEW/155°C
- Triple insulated litz wire: Ø0.1x100 T.I.W wire
- Polimid tape: Thick0.025mmx28mm Width
- Varnish: T-4260GK

Note:

- Solder the coil lead to the bobbin pin.
- Fixed the two half cores with 20mm tape
- The product needs to contain dipping varnish.
- Insulation system: OBYJ2 - compliant

GENERAL SPECIFICATIONS:

max.operating temperature: Top= +125°C
 ambient temperature: Ta = -40°C...+70°C
 storage temperature: Tst = -40°C...+85°C

REV.	DESCRIPTION / REASON	DATE	ITEM DESCRIPTION		NTH.288.012 LLC 1KW/24V TRANSFORMER	
A	First issued	2024.06.18			O-24065	
			Hi-Power P/N			
CHECKED			DESIGED	Jack.Y		
REV.	A		DATE	2024.06.18		



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