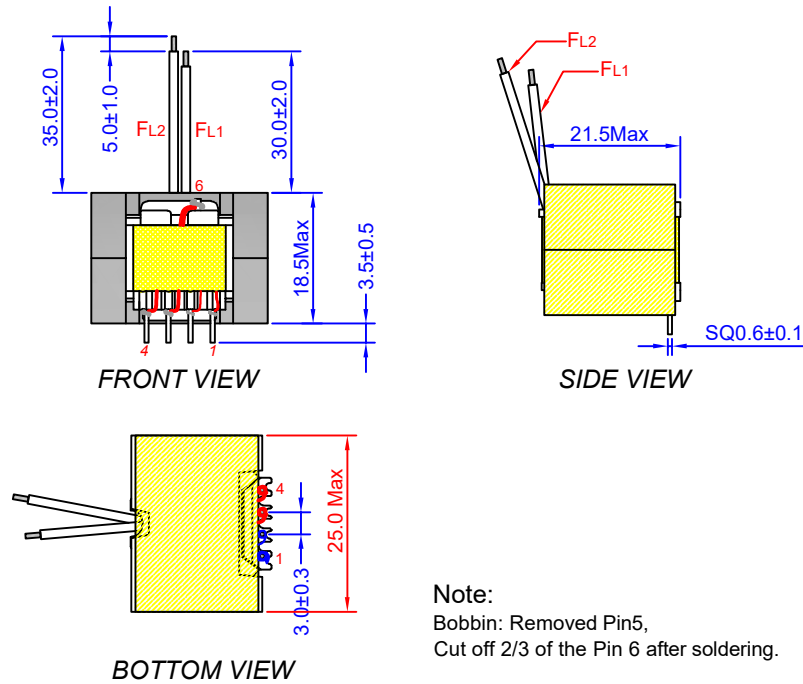


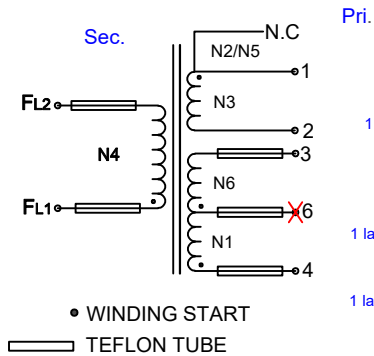
Doc.no.:	3X-002_06
Version:	V1.0
Last updated:	2024-03-19

Dimensions:[mm]

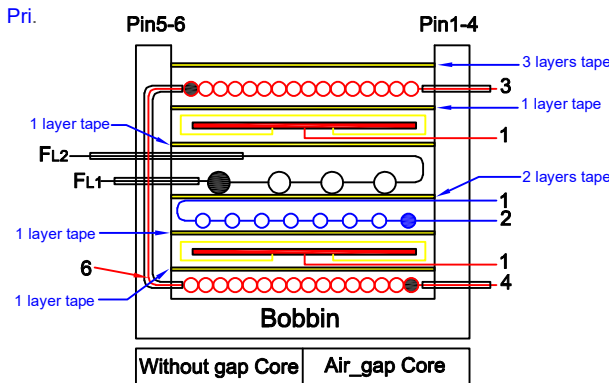


Note:
 Bobbin: Removed Pin5,
 Cut off 2/3 of the Pin 6 after soldering.

Electrical diagram



Winding structure diagram



1. WINDING SPECIFICATIONS

No.	Pins	Turns	Wire	Winding method
N1	4-6	13	0.1mmx15P/1UEW/155°C Litz cu wire	Tightly wound a layer
N2	1-N.C	0.9	7x0.025mm BJ-cu_foil	
N3	2-1	11	0.15mm/1UEW/155°C Cu_wire	Evenly wound a layer
N4	FL1-FL2	4	45x0.1mm TIW-B	Evenly wound a layer
N5	1-N.C	0.9	TxW=0.025mmx7mm BJ-cu_foil (Welding lead wireØ0.3mm)	
N6	6-3	13	0.1mmx15P/1UEW/155°C Litz cu wire	Tightly wound a layer

2. ELECTRICAL CHARACTERISTICS @20-25°C

PARAMETER	TEST CONDITIONS	VALUE
INDUCTANCE 4-3	10.0KHz, 0.3V, Ls	250.0uH±5%
Lk_INDUCTANCE 4-3	100.0KHz, 1.0V, Ls (Short 1,2,FL1,FL2)	4.0uH
DC RESISTANCE 4-3	TH2512B	300 mΩ Max
DIELECTRIC Pri-Sec	3000VAC/60S /50Hz	5mA
DIELECTRIC Pri/Sec-Core	500VAC/60S /50Hz	5mA
TURNS RATION	(4-3):(FL1-FL2):(2-1)	6.5:1:2.75 ±1%

Materials:

- Ferrite Core: ATQ23.7/17/17.8 Air_gap with inductance GP95
- Bobbin : ATQ23(4+2)Pins-Vertical PM9820
- Litz Cu_wire: Ø0.1mmx15 1UEW/155°C
- Cu_wire: Ø0.15mm, Ø0.3mm 1UEW/155°C
- Triple insulated litz wire: Ø0.1mmx45 /130°C Triple insulated wire
- Polyester tape: Thick0.025mmx9mm Width and 0.025mmx17mm
- Backed with tape copper foil: Thick0.025mmx7mm Width, air gap 3mm.
- Varnish: T-4260GK

Note:

- Solder the coil lead to the bobbin pin.
- Fixed the two half cores with 17mm tape
- The product needs to contain dipping varnish.

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
A	First issued	2024.09.22



NINGBO HI-TECH ZONE HIPOWER TECHNOLOGY CO.,LTD
 宁波高新区恒博尔科技有限公司
 Http://www.trafopsu.com
 Email: sales@trafopsu.com

ITEM DESCRIPTION		TRANSFORMER T3-R0-1		
Hi-Power P/N		O-24109/S-24150		
CHECKED		DESIGED	Jack.Y	
REV.	A	DATE	2024.09.22	