


Self Inductance @ 100 kHz
L(3-1) = 43.8 mH +/- 10%

 Start Pin & Bobbin Positive Rotation



Defintion of positive rotation

TIW - Triple Insulated Wire

LITZ - Litz Wire

FIW - Full Insulated Wire

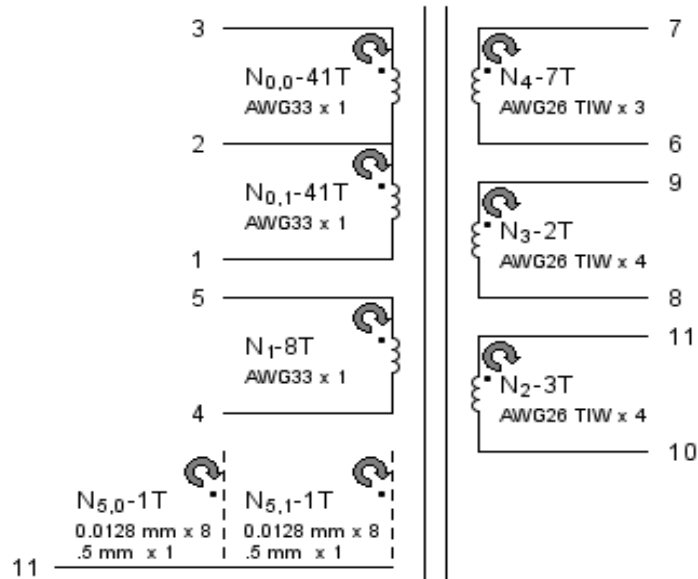
PVC - PVC Wire

DC Resistance
Rdc(3-1) <3.9 Ohm

Leakage Inductance @ 100 kHz
Lk(3-1) <37 uH

Core - PQ32/30Z-12 PC44 TDK
Bobbin -EE Vertical 12 pin bobbin
Hi-pot-
P-S 4000 Vac 1 Sec
P-Core 2000 Vac 1 Sec
S-Core 2000 Vac 1 Sec
Thermal Insulation Class: Class B

Remark -



Unless otherwise specified, all dimension in mm

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Recommended Manufacturer:

(You may find below manufacturer for custom prototype.)



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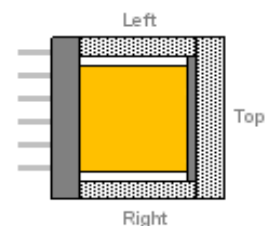
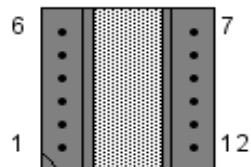
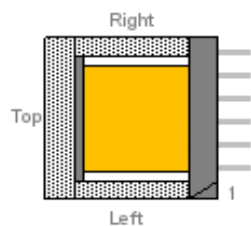
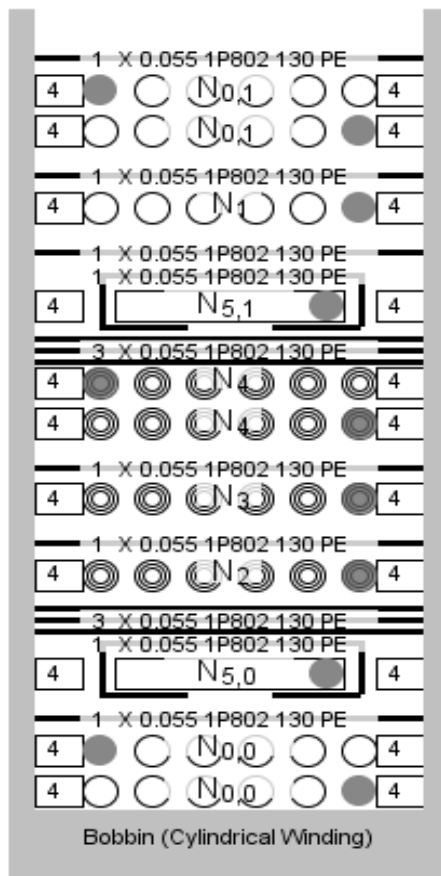
P/N: T1

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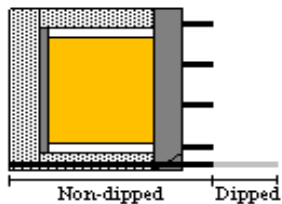
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Winding Construction and Pin Definition



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Winding Details:

Winding	Winding Details	Turns	Pin Terminate Before Winding	Pin Terminate After Winding	Start position margin L/R (mm)	Rotation Pos/Neg	Winding Property	Creepage Tape (mm)		Partition	Fly Wire length (mm)
								Left	Right		
N _{0,0}	Øcu=0.183 mm AWG33 x 1 180deg EI-N Triple Build Cu BCwire, Len = 2.18 m x 1	21T 20T	Pin 3	Pin 2	R (0) L (0)	Pos	Distributed	4	4		
Tape - 1 turn(s), He = 17 mm, Th = 0.055 mm, P. LEO Tape 1P802 130 PE Class B Tape											
N _{5,0}	0.0128 mm x 8.5 mm Copper Faraday Shield, Len = 74.9 mm x 1 Faraday Shield Tape -- 1 turn(s), He = 14.6 mm, Th = 0.055 mm, P. LEO Tape 1P802 130 PE Class B Tape	1.125		Pin 11	R (4)	Pos	Distributed	4	4		
Tape - 3 turn(s), He = 17 mm, Th = 0.055 mm, P. LEO Tape 1P802 130 PE Class B Tape											
N ₂	Øcu=0.409 mm AWG26 TIW x 4 180deg PFA 0.002 Cu RUBADUE, Len = 0.196 m x 4	3T	Pin 11	Pin 10	R (0)	Pos	Distributed	4	4		
Tape - 1 turn(s), He = 17 mm, Th = 0.055 mm, P. LEO Tape 1P802 130 PE Class B Tape											
N ₃	Øcu=0.409 mm AWG26 TIW x 4 180deg PFA 0.002 Cu RUBADUE, Len = 0.147 m x 4	2T	Pin 9	Pin 8	R (0)	Pos	Distributed	4	4		
Tape - 1 turn(s), He = 17 mm, Th = 0.055 mm, P. LEO Tape 1P802 130 PE Class B Tape											
N ₄	Øcu=0.409 mm AWG26 TIW x 3 180deg PFA 0.002 Cu RUBADUE, Len = 0.511 m x 3	4T 3T	Pin 7	Pin 6	R (0) L (0)	Pos	Distributed	4	4		
Tape - 3 turn(s), He = 17 mm, Th = 0.055 mm, P. LEO Tape 1P802 130 PE Class B Tape											
N _{5,1}	0.0128 mm x 8.5 mm Copper Faraday Shield, Len = 96.3 mm x 1 Faraday Shield Tape -- 1 turn(s), He = 14.6 mm, Th = 0.055 mm, P. LEO Tape 1P802 130 PE Class B Tape	1.125		Pin 11	R (4)	Pos	Distributed	4	4		
Tape - 1 turn(s), He = 17 mm, Th = 0.055 mm, P. LEO Tape 1P802 130 PE Class B Tape											
N ₁	Øcu=0.183 mm AWG33 x 1 180deg EI-N Triple Build Cu BCwire, Len = 0.642 m x 1	8T	Pin 5	Pin 4	R (0)	Pos	Distributed	4	4		
Tape - 1 turn(s), He = 17 mm, Th = 0.055 mm, P. LEO Tape 1P802 130 PE Class B Tape											
N _{0,1}	Øcu=0.183 mm AWG33 x 1 180deg EI-N Triple Build Cu BCwire, Len = 3.31 m x 1	21T 20T	Pin 2	Pin 1	R (0) L (0)	Pos	Distributed	4	4		

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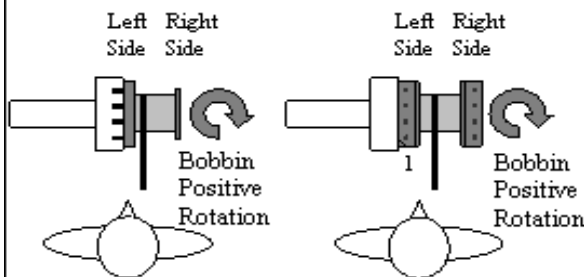
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Winding Details:

Winding	Winding Details	Turns	Pin Terminate Before Winding	Pin Terminate After Winding	Start position margin L/R (mm)	Rotation Pos/Neg	Winding Property	Creepage Tape (mm)		Partition	Fly Wire length (mm)
								Left	Right		
	Tape - 1 turn(s), He = 17 mm, Th = 0.055 mm, P. LEO Tape 1P802 130 PE Class B Tape										

Remarks: Unless further declare, all pin terminates before/after the current winding.



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Material List:

No.	Items	Materials	Suppliers/ Manufacturer	Class
1	Bobbin	EE Vertical 12 pin bobbin Thickness: Upper 1.25 mm Lower 1.25 mm Left 1.25 mm		B
2	Core	PQ32/30Z-12 PC44 TDK	TDK	
3	Wire 	0.0128 mm x 8.5 mm Copper Faraday Shield , Usage = 0.171 m OD=0.711 mm Øcu=0.409 mm AWG26 180deg 0.134 Ω/m PFA 0.002 Cu Reinforced Insulated RUBADUE , Usage = 2.9 m OD=0.234 mm Øcu=0.183 mm AWG33 180deg 0.675 Ω/m EI-N Triple Build Cu Magnet Wire BCwire , Usage = 6.13 m	RUBADUE BCwire	H H
4	Varnish 	31-398(DIP & BAKE) ELANTAS	ELANTAS	H
5	UL Insulation System 	P. LEO	P. LEO	B
6	Tape 	Height = 17 mm, Thickness = 0.055 mm, P. LEO Tape 1P802 130 PE Class B Tape Height = 14.6 mm, Thickness = 0.055 mm, P. LEO Tape 1P802 130 PE Class B Tape	P. LEO P. LEO	B B

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Manufacturer List

Manufacturer	Logo	Agent	Contact Person	Contact Detail
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P. LEO Tape			Ms. Karrie Pang	market@pleo.com Tel.: 852 2604 8222 Fax.: 852 2693 2093
RUBADUE				sales@rubadue.com Tel:+1-970-351-6100 Fax:+1-970-351-0355
BCwire		HKC & Communication Ltd.	Ms. Karrie Pang	market@pleo.com Tel.: 852 2604 8222 Fax.: 852 2693 2093 Contact person : Mr. Ben Ho
ELANTAS		HKC & Communication Ltd.	Mr. Ben Ho	Tel: (852) 27216620 Fax:(852) 26882656
P. LEO		HKC & Communication Ltd.	Ms. Karrie Pang	market@pleo.com Tel: 852 2604 8222 Fax: 852 2693 2093

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