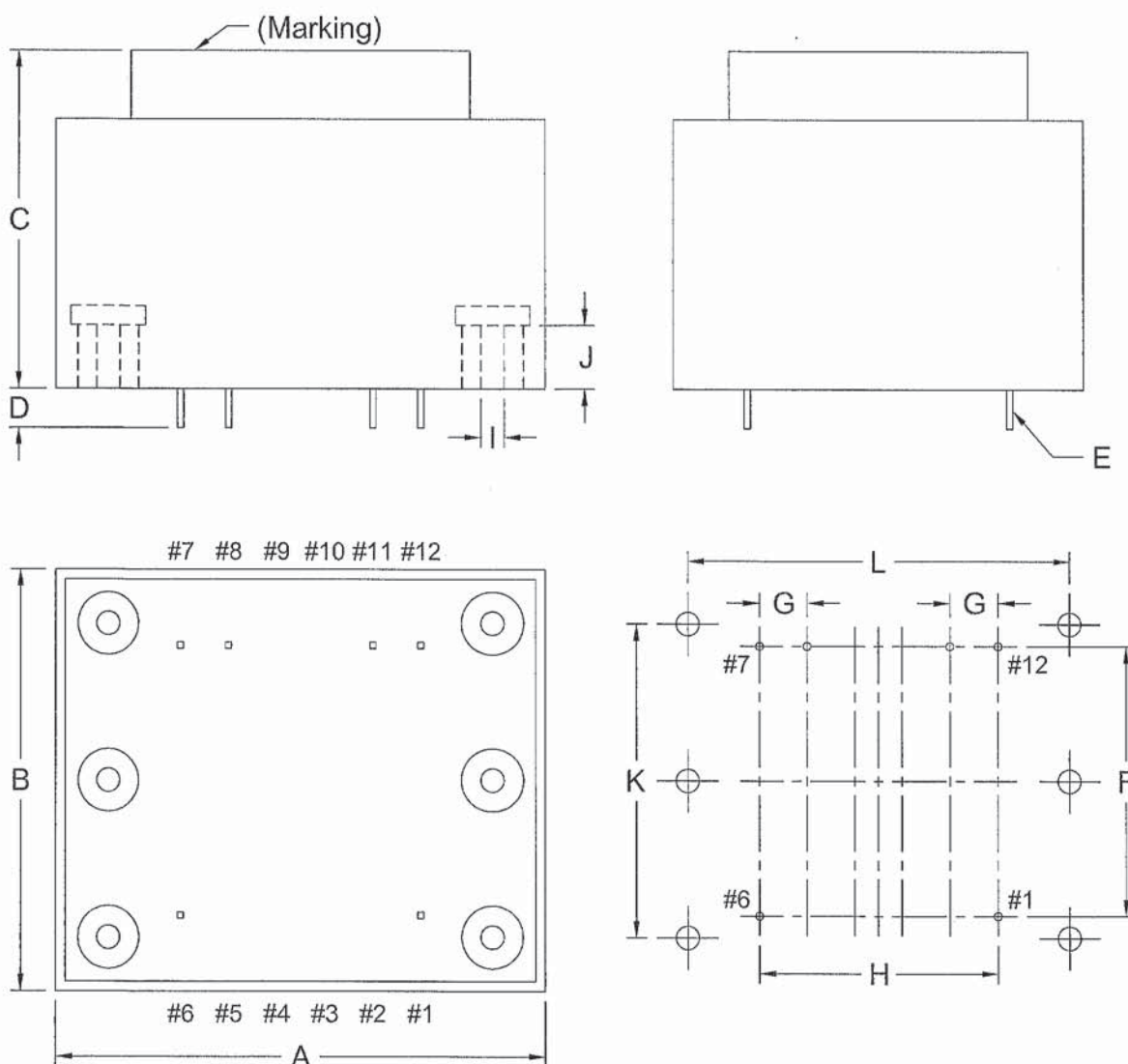




Thai Lin Type :	TL48D-120-0416 (R)	Date of Issue :	18 Feb., 2025
Description :	Encapsulated Transformer	Prepared By :	<i>ch</i>
Revision :	--	Approved By :	<i>[Signature]</i>

(A) Physical Dimension:



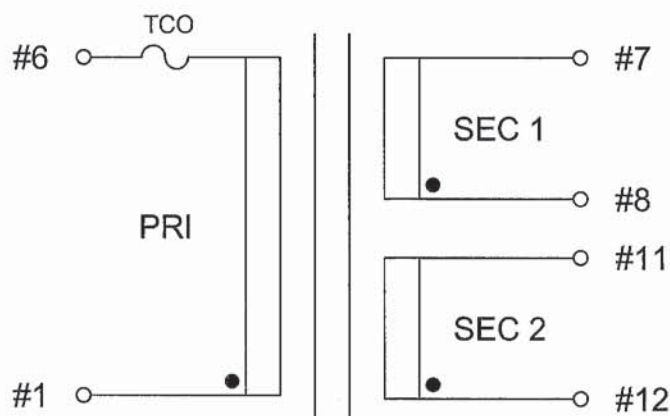
- Note: (1) Marking shows P/N & electrical specification & pin #1 position & date code (YYWW).
(2) Pins #2, 4, 5, 9 & 10 are omitted. Pin #3 is trimmed.

	A	B	C	D	E	F	G	H	I	J	K	L
Dimension (mm)	51.0	43.0	34.5	4.0	SQ0.64	27.5	5.0	25.0	$\phi 2.4$	6.3	32.0	40.0
Tolerance (mm)	± 1.0	± 1.0	± 1.0	± 1.0	± 0.1	± 0.5	± 0.2	± 0.5	± 0.2	min.	± 1.0	± 1.0



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(B) Electrical Schematic:



(C) Winding Information:

Item	Material	Start	Finish
PRI	Enameled Copper Wire, $\phi 0.12\text{mm}$	1	3
SEC 1	Enameled Copper Wire, $\phi 0.31\text{mm}$	8	7
SEC 2	Enameled Copper Wire, $\phi 0.31\text{mm}$	12	11

Note: A thermal fuse shall be connected between pin #3 and pin #6.

(D) Electrical Characteristics:

Excitation Current (input $230V_{\text{rms}}/50\text{Hz}$)	Pin #1 - #6	45mA max.
Output Voltage (input $230V_{\text{rms}}/50\text{Hz}$) (Secondary loaded at $416\text{mA}_{\text{rms}}$)	Pin #8 - #7 Pin #12 - #11	$12V_{\text{rms}} \pm 5\%$ $12V_{\text{rms}} \pm 5\%$
DCR (@ 20°C)	Pin #1 - #6 Pin #8 - #7 Pin #12 - #11	0.40k Ω max. 3.90 Ω max. 3.40 Ω max.
Dielectric Strength	P - S	3750V, 50Hz, 60 seconds, 1mA max.



THAI LIN RADIO COIL MFY. LTD.

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(E) Material List:

<i>Item</i>	<i>Material</i>	<i>Manufacturer</i>	<i>UL File</i>
Core	Lamination Core, EI48, Sort of Material : Silicon steel	Topper Silicon Steel Industry; or Let's Steel Industry Co., Ltd.; or Various	--
Bobbin	EI48, Horizontal, 2-section, FR530, 94V-0 Nylon 66/GF, 6410G5, 94V-0	EI Dupont De Nemours & Co., Inc. Nan Ya Plastics Corp.	E41938 E130155
Case	Case for EI48, ZYTEL 70G33L 94HB PA66 A3X2G5 94V-0	EI Dupont De Nemours & Co., Inc. BASF Corp.	E41938 E135532
Fixing Rail	Fixing Rail, with 3 holes ZYTEL 70G33L 94HB PA66 A3X2G5 94V-0	EI Dupont De Nemours & Co., Inc. BASF Corp.	E41938 E135532
Magnet Wire	Enameled Copper Wire MW79; or MW80 MW75; or MW28	Pacific-Thai Electric Wire & Cable; or Electrical Insulation System	E142108 E193731
Insulation Tape	Polyester Film Tape, #1350F-1, 130°C Polyester Film Tape, 630F, 130°C	3M Teraoka Seisakusho Co. Ltd.	E17385 E56086
Epoxy	XN1181 / XN1101	Nagase Chemtex Corp.	E62465
Fuse	32X (133°C, 250V _{AC} , 1A)	Uchihashi Estec Co., Ltd.	E50082
Sleeve	Teflon Sleeve, 200°C / 300V	Great Holding Industrial Co., Ltd.	E156256