

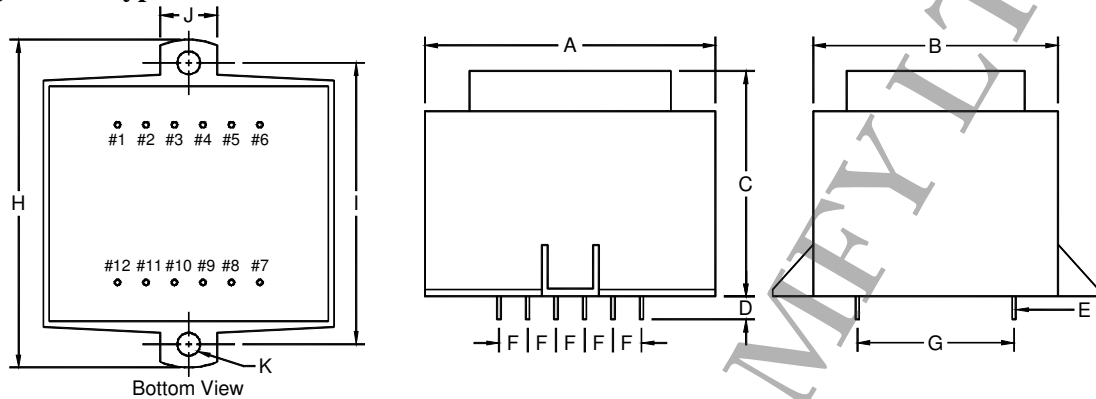




# THAI LIN RADIO since 1975

STANDARD  
ENCAPSULATED  
TRANSFORMER  
TYPE EI48 / 16.8

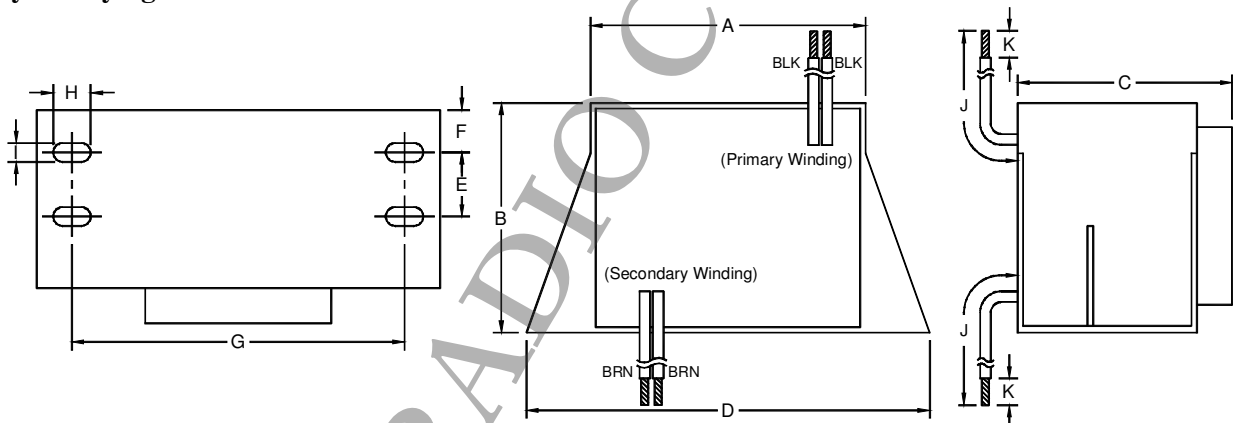
## Potting Shell – Type C



	A	B	C	D	E	F	G	H	I	J	K	Weight (g)
<b>Dimension (mm)</b>	51.0	42.5	34.5	4.0	SQ0.64	5.0	27.5	60.0	52.5	10.0	φ4.2	290
<b>Tolerance (mm)</b>	±1.0	±1.0	±1.0	±1.0	±0.1	±0.2	±0.5	max.	±1.0	±0.5	±0.2	approx.

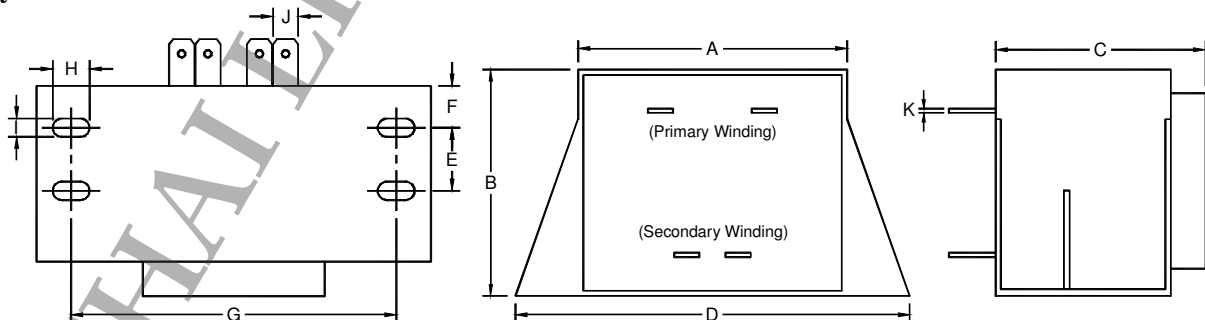
Note: Unused pins are omitted for standard parts. Unused pins can be provided upon request.

## Style – Flying Lead



	A	B	C	D	E	F	G	H	I	J	K	Weight (g)
<b>Dimension (mm)</b>	51.0	42.8	35.5	75.0	12.0	8.5	62.0	6.7	3.5	250	5.0	290
<b>Tolerance (mm)</b>	±1.0	±1.0	±1.0	±1.0	±1.0	typ.	±1.0	±0.5	±0.2	±10	±1.0	approx.

## Style – Faston Tab

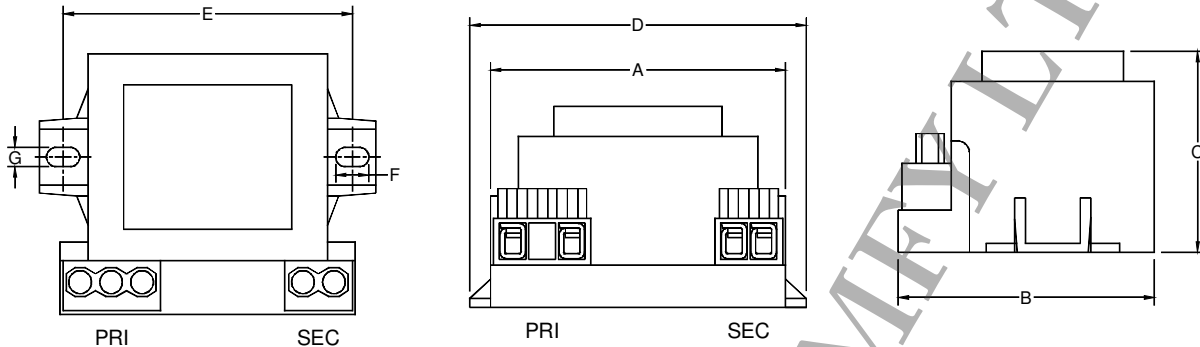


	A	B	C	D	E	F	G	H	I	J	K	Weight (g)
<b>Dimension (mm)</b>	51.0	42.8	35.5	75.0	12.0	8.5	62.0	6.7	3.5	4.8	0.8	290
<b>Tolerance (mm)</b>	±1.0	±1.0	±1.0	±1.0	±1.0	typ.	±1.0	±0.5	±0.2	±0.2	±0.1	approx.

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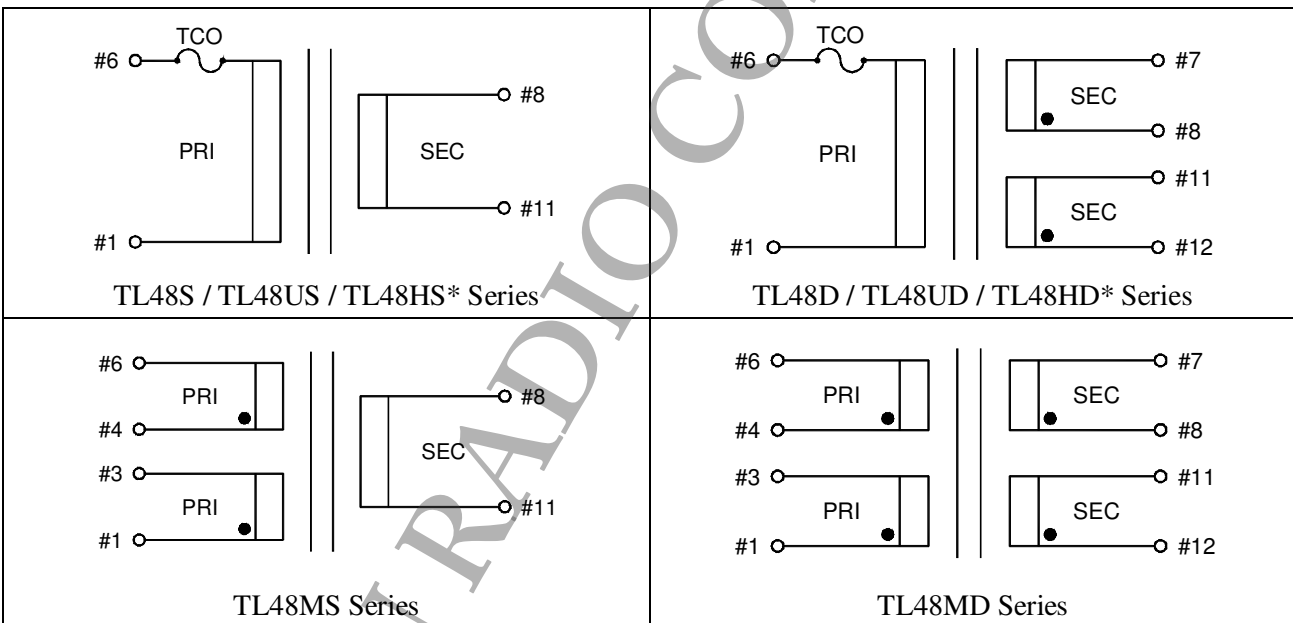
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## Style – Terminal Block



	A	B	C	D	E	F	G	Weight (g)
<b>Dimension (mm)</b>	58.7	51.6	39.6	68.5	60.0	6.0	4.2	320
<b>Tolerance (mm)</b>	±1.0	±1.0	±1.0	±1.0	±0.5	±0.5	±0.2	approx.

## Schematics



Pins Connection (for dual windings items)	Primary	In Series	Pin 1 – Pin 6 (Pins 3, 4 short)
		In Parallel	Pin 1 – Pin 6 (Pins 1, 4 short; Pins 3, 6 short)
	Secondary	In Series	Pin 8 – Pin 11 (Pins 7, 12 short)
		In Parallel	Pin 8 – Pin 11 (Pins 7, 11 short; Pins 8, 12 short)

\* The TCO is omitted for the TL48HS & TL48HD series.



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## Part Number Designation

Seven designations are available. Use TL48S-060-1333 as example:

- 1) TL48S-060-1333 = Potting Shell A (without fixing rails)
- 2) TL48S-060-1333 (R) = Potting Shell A (with fixing rails)
- 3) TL48S-060-1333 (SB) = Potting Shell B
- 4) TL48S-060-1333 (SC) = Potting Shell C
- 5) TL48S-060-1333FL = Flying Lead Style
- 6) TL48S-060-1333FT = Faston Tab Style
- 7) TL48S-060-1333TB = Terminal Block Style

Note:

- a) Flying lead style is only available for the single primary + single secondary items.
- b) Faston tab style is only available for the single primary + single secondary items.
- c) Terminal block style is only available for the single primary + single secondary items.
- d) Terminal block style is only available for "TUV + CE" approved items.
- e) In case of need, please add the appropriate suffixes in the part number when ordering.

Product Series	Primary (V)	Single Secondary			Dual Secondary			ta (°C)	Agency Approval		
		Part Number	Secondary Rating		Part Number	Secondary Rating					
(V)	(mA)		(V)	(mA)							
8VA	230	TL48S-060-1333	6	1333	TL48D-060-0666	2 x 6	666	70	TUV CE		
		TL48S-072-1111	7.2	1111	TL48D-072-0555	2 x 7.2	555				
		TL48S-090-0888	9	888	TL48D-090-0444	2 x 9	444				
		TL48S-100-0800	10	800	TL48D-100-0400	2 x 10	400				
		TL48S-120-0666	12	666	TL48D-120-0333	2 x 12	333				
		TL48S-150-0533	15	533	TL48D-150-0266	2 x 15	266				
	115	TL48US-060-1333	6	1333	TL48UD-060-0666	2 x 6	666			70	UL5085-1/-2 C-UL
		TL48US-072-1111	7.2	1111	TL48UD-072-0555	2 x 7.2	555				
		TL48US-090-0888	9	888	TL48UD-090-0444	2 x 9	444				
		TL48US-100-0800	10	800	TL48UD-100-0400	2 x 10	400				
		TL48US-120-0666	12	666	TL48UD-120-0333	2 x 12	333				
		TL48US-150-0533	15	533	TL48UD-150-0266	2 x 15	266				
115 (Parallel) or 230 (Series)	TL48MS-060-1333	6	1333	TL48MD-060-0666	2 x 6	666	70	UL5085-1/-2 C-UL TUV CE			
	TL48MS-072-1111	7.2	1111	TL48MD-072-0555	2 x 7.2	555					
	TL48MS-090-0888	9	888	TL48MD-090-0444	2 x 9	444					
	TL48MS-100-0800	10	800	TL48MD-100-0400	2 x 10	400					
	TL48MS-120-0666	12	666	TL48MD-120-0333	2 x 12	333					
	TL48MS-150-0533	15	533	TL48MD-150-0266	2 x 15	266					
400	TL48HS-060-1333	6	1333	TL48HD-060-0666	2 x 6	666	70	--			
	TL48HS-072-1111	7.2	1111	TL48HD-072-0555	2 x 7.2	555					
	TL48HS-090-0888	9	888	TL48HD-090-0444	2 x 9	444					
	TL48HS-100-0800	10	800	TL48HD-100-0400	2 x 10	400					
	TL48HS-120-0666	12	666	TL48HD-120-0333	2 x 12	333					
	TL48HS-150-0533	15	533	TL48HD-150-0266	2 x 15	266					

Note: 1) TL48S & TL48D series are fail-safe transformers.  
2) TL48MS, TL48MD, TL48HS & TL48HD series are non-short-circuit proof transformers.



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Product Series	Primary (V)	Single Secondary			Dual Secondary			ta (°C)	Agency Approval
		Part Number	Secondary Rating		Part Number	Secondary Rating			
			(V)	(mA)		(V)	(mA)		
10VA	230	TL48S-060-1666	6	1666	TL48D-060-0833	2 x 6	833	70	TUV CE
		TL48S-072-1388	7.2	1388	TL48D-072-0694	2 x 7.2	694		
		TL48S-090-1111	9	1111	TL48D-090-0555	2 x 9	555		
		TL48S-100-1000	10	1000	TL48D-100-0500	2 x 10	500		
		TL48S-120-0833	12	833	TL48D-120-0416	2 x 12	416		
		TL48S-150-0666	15	666	TL48D-150-0333	2 x 15	333		
		TL48S-180-0555	18	555	TL48D-180-0277	2 x 18	277		
		TL48S-240-0416	24	416	TL48D-240-0208	2 x 24	208		
	115	TL48US-060-1666	6	1666	TL48UD-060-0833	2 x 6	833	70	UL5085-1/-2 C-UL
		TL48US-072-1388	7.2	1388	TL48UD-072-0694	2 x 7.2	694		
		TL48US-090-1111	9	1111	TL48UD-090-0555	2 x 9	555		
		TL48US-100-1000	10	1000	TL48UD-100-0500	2 x 10	500		
		TL48US-120-0833	12	833	TL48UD-120-0416	2 x 12	416		
		TL48US-150-0666	15	666	TL48UD-150-0333	2 x 15	333		
		TL48US-180-0555	18	555	TL48UD-180-0277	2 x 18	277		
		TL48US-240-0416	24	416	TL48UD-240-0208	2 x 24	208		
	115 (Parallel) or 230 (Series)	TL48MS-060-1666	6	1666	TL48MD-060-0833	2 x 6	833	70	UL5085-1/-2 C-UL TUV CE
		TL48MS-072-1388	7.2	1388	TL48MD-072-0694	2 x 7.2	694		
		TL48MS-090-1111	9	1111	TL48MD-090-0555	2 x 9	555		
		TL48MS-100-1000	10	1000	TL48MD-100-0500	2 x 10	500		
TL48MS-120-0833		12	833	TL48MD-120-0416	2 x 12	416			
TL48MS-150-0666		15	666	TL48MD-150-0333	2 x 15	333			
TL48MS-180-0555		18	555	TL48MD-180-0277	2 x 18	277			
TL48MS-240-0416		24	416	TL48MD-240-0208	2 x 24	208			
400	TL48HS-060-1666	6	1666	TL48HD-060-0833	2 x 6	833	70	--	
	TL48HS-072-1388	7.2	1388	TL48HD-072-0694	2 x 7.2	694			
	TL48HS-090-1111	9	1111	TL48HD-090-0555	2 x 9	555			
	TL48HS-100-1000	10	1000	TL48HD-100-0500	2 x 10	500			
	TL48HS-120-0833	12	833	TL48HD-120-0416	2 x 12	416			
	TL48HS-150-0666	15	666	TL48HD-150-0333	2 x 15	333			
	TL48HS-180-0555	18	555	TL48HD-180-0277	2 x 18	277			
	TL48HS-240-0416	24	416	TL48HD-240-0208	2 x 24	208			

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