

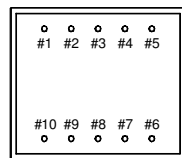
# THAI LIN RADIO since 1975

Трансформаторы  
герметизированные  
EI30x12.5-1.0-1.5VA STANDARD  
ENCAPSULATED  
TRANSFORMER TYPE EI30 / 12.5

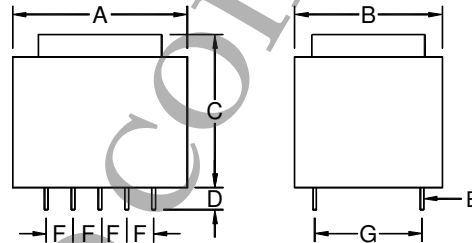


## Type EI30 / 12.5

- Power – 1.0/1.2/1.5VA
- Frequency – 50/60 Hz
- Temperature class – Class B (130°C)
- Ambient temperature (ta) – 70°C
- Dielectric strength – 4000Vrms
- Potted under vacuum
- Inherently short-circuit-proof
- Agency approvals
  - TUV / CE: EN61558 / EN60950
  - UL: UL506; UL5085-1 / -2 / -3 (Class 2);
  - C-UL: CSA C22.2 #66 / #66.1 / #66.2 / #66.3
  - CQC: GB19212.1 / GB19212.7



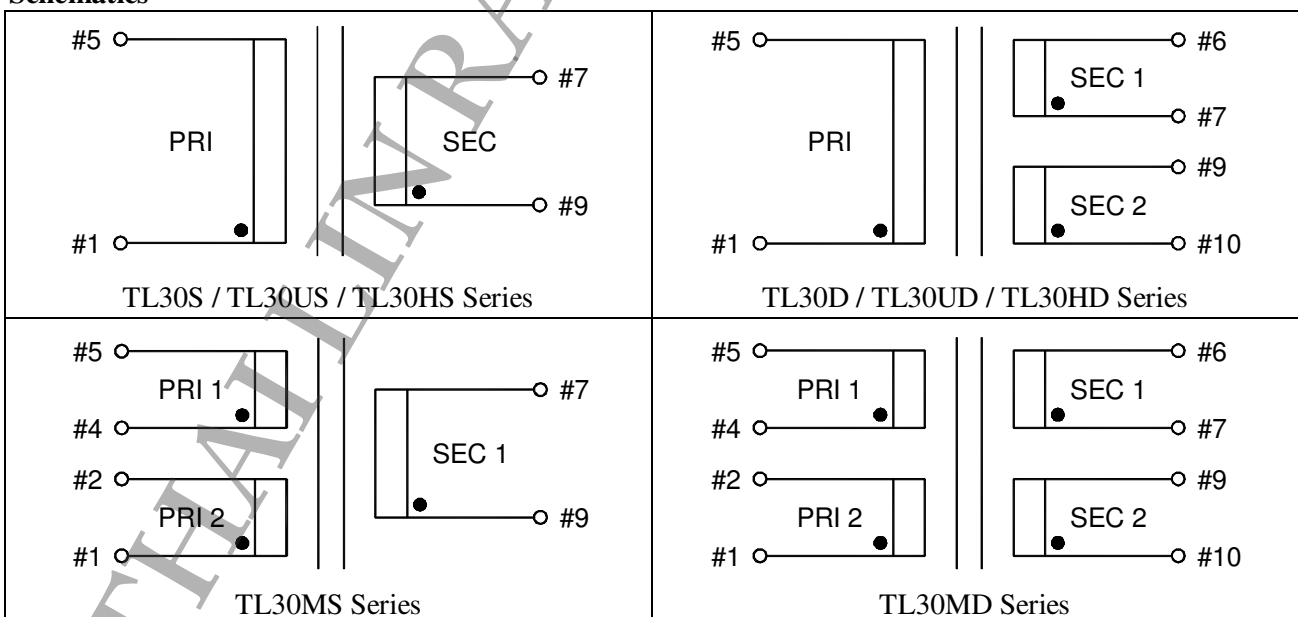
Bottom View



	A	B	C (note 2)	D	E	F	G	Weight (g)
<b>Dimension (mm)</b>	32.3	27.3	21.3	4.0	SQ0.64	5.0	20.0	80
<b>Tolerance (mm)</b>	±0.5	±0.5	±0.5	±1.0	±0.1	±0.2	±0.5	approx.

Note: 1) Unused pins are omitted for standard parts. Unused pins can be provided upon request.  
2) For the TL30UD & TL30US series (except the Class 2 items), dimension C should be 22.8±0.5mm.

## Schematics





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Pins Connection (for dual windings items)	Primary	In Series	Pin 1 – Pin 5 (Pins 2, 4 short)
		In Parallel	Pin 1 – Pin 5 (Pins 1, 4 short; Pins 2, 5 short)
	Secondary	In Series	Pin 7 – Pin 9 (Pins 6, 10 short)
		In Parallel	Pin 7 – Pin 9 (Pins 7, 10 short; Pins 6, 9 short)

## Part Number Designation

### Single input:

Type of Designation		Suffix
1)	TL30x-yyy-zzz (note 1)	CN = Product with CQC (GB19212.1 + GB19212.7) (N) = Product with TUV (EN61558 + EN60950 + CE) (NC2) = Product with TUV & UL-Class 2 (EN61558 + EN60950 + CE + UL5085-3 + CSA C22.2 #66.1 66.3)
2)	TL30Ux-yyy-zzz (note 1)	w/o suffix = Product with UL (UL506 + CSA C22.2 #66) (C2) = Product with UL-Class 2 ( UL5085-3 + CSA C22.2 #66.1 66.3)

### Dual input:

Type of Designation		Suffix
1)	TL30Mx-yyy-zzz (note 1)	w/o suffix = Product with TUV & UL (EN61558 + EN60950 + CE + UL5085-1/-2 + CSA C22.2 #66.1 66.2) CN = Product with CQC (GB19212.1 + GB19212.7) (C2) = Product with TUV & UL-Class 2 (EN61558 + EN60950 + CE + UL5085-3 + CSA C22.2 #66.1 66.3)
2)	TL30MD-yyy-zzz (note 1)	(Z) = Product with providing unused Pin #8

Note: (1) x = S: one secondary winding

= D: two secondary windings

yyy = 3 digit numbers indicate 10 times the rated output voltage (V)

zzz = 3 digit numbers indicate the rated output current (mA)

(2) In case of need, please add the appropriate suffixes in the part number when ordering.

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# THAI LIN RADIO since 1975

STANDARD  
ENCAPSULATED  
TRANSFORMER  
TYPE EI30 / 12.5

Product Series	Primary (V)	Single Secondary			Dual Secondary			ta (°C)	Agency Approval
		Part Number	Secondary Rating		Part Number	Secondary Rating			
			(V)	(mA)		(V)	(mA)		
1.0VA	230	* TL30S-060-167	6	167	* TL30D-060-083	2 x 6	83	70	* UL5085-3 C-UL TUV CE CQC
		* TL30S-072-139	7.2	139	* TL30D-072-069	2 x 7.2	69		
	* TL30S-090-111	9	111	* TL30D-090-056	2 x 9	56			
	* TL30S-100-100	10	100	* TL30D-100-050	2 x 10	50			
	* TL30S-120-083	12	83	TL30D-120-042	2 x 12	42			
115	115	TL30US-060-167	6	167	TL30UD-060-083	2 x 6	83	70	UL506 C-UL
		TL30US-072-139	7.2	139	TL30UD-072-069	2 x 7.2	69		
		TL30US-090-111	9	111	TL30UD-090-056	2 x 9	56		
		TL30US-100-100	10	100	TL30UD-100-050	2 x 10	50		
		TL30US-120-083	12	83	TL30UD-120-042	2 x 12	42		
115 (Parallel) or 230 (Series)	115	* TL30US-060-167 (C2)	6	167	* TL30UD-060-083 (C2)	2 x 6	83	70	* UL5085-3 C-UL
		* TL30US-072-139 (C2)	7.2	139	* TL30UD-072-069 (C2)	2 x 7.2	69		
		* TL30US-090-111 (C2)	9	111	* TL30UD-090-056 (C2)	2 x 9	56		
		* TL30US-100-100 (C2)	10	100	* TL30UD-100-050 (C2)	2 x 10	50		
		* TL30US-120-083 (C2)	12	83					
400	400	* TL30MS-060-167	6	167	* TL30MD-060-083	2 x 6	83	70	* UL5085-3 UL5085-1/-2 C-UL TUV CE CQC
		* TL30MS-072-139	7.2	139	* TL30MD-072-069	2 x 7.2	69		
		* TL30MS-090-111	9	111	* TL30MD-090-056	2 x 9	56		
		* TL30MS-100-100	10	100	* TL30MD-100-050	2 x 10	50		
		* TL30MS-120-083	12	83	TL30MD-120-042	2 x 12	42		
1.2VA	230	TL30HS-060-167	6	167	TL30HD-060-083	2 x 6	83	70	* UL5085-3 C-UL TUV CE CQC
		TL30HS-072-139	7.2	139	TL30HD-072-069	2 x 7.2	69		
		TL30HS-090-111	9	111	TL30HD-090-056	2 x 9	56		
		TL30HS-100-100	10	100	TL30HD-100-050	2 x 10	50		
		TL30HS-120-083	12	83	TL30HD-120-042	2 x 12	42		
1.2VA	230	* TL30S-060-200	6	200	* TL30D-060-100	2 x 6	100	70	* UL5085-3 C-UL TUV CE CQC
		* TL30S-072-167	7.2	167	* TL30D-072-083	2 x 7.2	83		
		* TL30S-090-133	9	133	* TL30D-090-067	2 x 9	67		
		* TL30S-100-120	10	120	* TL30D-100-060	2 x 10	60		
		* TL30S-120-100	12	100	TL30D-120-050	2 x 12	50		
* TL30S-150-080	15	80	TL30D-150-040	2 x 15	40				
* TL30S-180-067	18	67	TL30D-180-033	2 x 18	33				
TL30S-240-050	24	50	TL30D-240-025	2 x 24	25				

Note: Items marked with "\*" are approved to UL5085-3 (Class 2) & C-UL: CSA C22.2 No. 66-3-06.



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STANDARD  
ENCAPSULATED  
TRANSFORMER  
TYPE EI30 / 12.5

Product Series	Primary (V)	Single Secondary			Dual Secondary			ta (°C)	Agency Approval
		Part Number	Secondary Rating		Part Number	Secondary Rating			
			(V)	(mA)		(V)	(mA)		
1.2VA	115	TL30US-060-200	6	200	TL30UD-060-100	2 x 6	100	70	UL506 C-UL
		TL30US-072-167	7.2	167	TL30UD-072-083	2 x 7.2	83		
		TL30US-090-133	9	133	TL30UD-090-067	2 x 9	67		
		TL30US-100-120	10	120	TL30UD-100-060	2 x 10	60		
		TL30US-120-100	12	100	TL30UD-120-050	2 x 12	50		
		TL30US-150-080	15	80	TL30UD-150-040	2 x 15	40		
	115 (Parallel) or 230 (Series)	* TL30US-060-200 (C2)	6	200	* TL30UD-060-100 (C2)	2 x 6	100	70	* UL5085-3 C-UL
		* TL30US-072-167 (C2)	7.2	167	* TL30UD-072-083 (C2)	2 x 7.2	83		
		* TL30US-090-133 (C2)	9	133	* TL30UD-090-067 (C2)	2 x 9	67		
		* TL30US-100-120 (C2)	10	120	* TL30UD-100-060 (C2)	2 x 10	60		
		* TL30US-120-100 (C2)	12	100					
		* TL30US-150-080 (C2)	15	80					
400	115 (Parallel) or 230 (Series)	* TL30MS-060-200	6	200	* TL30MD-060-100	2 x 6	100	70	* UL5085-3 UL5085-1/-2 C-UL TUV CE CQC
		* TL30MS-072-167	7.2	167	* TL30MD-072-083	2 x 7.2	83		
		* TL30MS-090-133	9	133	* TL30MD-090-067	2 x 9	67		
		* TL30MS-100-120	10	120	* TL30MD-100-060	2 x 10	60		
		* TL30MS-120-100	12	100	TL30MD-120-050	2 x 12	50		
		* TL30MS-150-080	15	80	TL30MD-150-040	2 x 15	40		
	TL30HS-060-200	6	200	TL30HD-060-100	2 x 6	100	70	--	
		TL30HS-072-167	7.2	167	TL30HD-072-083	2 x 7.2			83
		TL30HS-090-133	9	133	TL30HD-090-067	2 x 9			67
		TL30HS-100-120	10	120	TL30HD-100-060	2 x 10			60
		TL30HS-120-100	12	100	TL30HD-120-050	2 x 12			50
		TL30HS-150-080	15	80	TL30HD-150-040	2 x 15			40
1.5VA	230	* TL30S-060-250	6	250	* TL30D-060-125	2 x 6	125	70	* UL5085-3 C-UL TUV CE CQC
		* TL30S-072-208	7.2	208	* TL30D-072-104	2 x 7.2	104		
		* TL30S-090-167	9	167	* TL30D-090-083	2 x 9	83		
		* TL30S-100-150	10	150	TL30D-100-075	2 x 10	75		
		* TL30S-120-125	12	125	TL30D-120-062	2 x 12	62		
		* TL30S-150-100	15	100	TL30D-150-050	2 x 15	50		
	115	TL30US-060-250	6	250	TL30UD-060-125	2 x 6	125	70	UL506 C-UL
		TL30US-072-208	7.2	208	TL30UD-072-104	2 x 7.2	104		
		TL30US-090-167	9	167	TL30UD-090-083	2 x 9	83		
		TL30US-100-150	10	150	TL30UD-100-075	2 x 10	75		
		TL30US-120-125	12	125	TL30UD-120-062	2 x 12	62		
		TL30US-150-100	15	100	TL30UD-150-050	2 x 15	50		
TL30US-180-083	18	83	TL30UD-180-042	2 x 18	42				
TL30US-240-062	24	62	TL30UD-240-031	2 x 24	31				

Note: Items marked with "\*" are approved to UL5085-3 (Class 2) & C-UL: CSA C22.2 No. 66-3-06.



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TRANSFORMER  
TYPE EI30 / 12.5

Product Series	Primary (V)	Single Secondary			Dual Secondary			ta (°C)	Agency Approval
		Part Number	Secondary Rating		Part Number	Secondary Rating			
			(V)	(mA)		(V)	(mA)		
1.5VA	115	* TL30US-060-250 (C2)	6	250	* TL30UD-060-125 (C2)	2 x 6	125	70	* UL5085-3 C-UL
		* TL30US-072-208 (C2)	7.2	208	* TL30UD-072-104 (C2)	2 x 7.2	104		
		* TL30US-090-167 (C2)	9	167	* TL30UD-090-083 (C2)	2 x 9	83		
		* TL30US-100-150 (C2)	10	150					
		* TL30US-120-125 (C2)	12	125					
		* TL30US-150-100 (C2)	15	100					
		* TL30US-180-083 (C2)	18	83					
	115 (Parallel) or 230 (Series)	* TL30MS-060-250	6	250	* TL30MD-060-125	2 x 6	125	70	* UL5085-3 UL5085-1/-2 C-UL TUV CE CQC
		* TL30MS-072-208	7.2	208	* TL30MD-072-104	2 x 7.2	104		
* TL30MS-090-167		9	167	* TL30MD-090-083	2 x 9	83			
* TL30MS-100-150		10	150	TL30MD-100-075	2 x 10	75			
* TL30MS-120-125		12	125	TL30MD-120-062	2 x 12	62			
* TL30MS-150-100		15	100	TL30MD-150-050	2 x 15	50			
* TL30MS-180-083		18	83	TL30MD-180-042	2 x 18	42			
TL30MS-240-062	24	62	TL30MD-240-031	2 x 24	31				
400	TL30HS-060-250	6	250	TL30HD-060-125	2 x 6	125	70	--	
	TL30HS-072-208	7.2	208	TL30HD-072-104	2 x 7.2	104			
	TL30HS-090-167	9	167	TL30HD-090-083	2 x 9	83			
	TL30HS-100-150	10	150	TL30HD-100-075	2 x 10	75			
	TL30HS-120-125	12	125	TL30HD-120-062	2 x 12	62			
	TL30HS-150-100	15	100	TL30HD-150-050	2 x 15	50			
	TL30HS-180-083	18	83	TL30HD-180-042	2 x 18	42			
	TL30HS-240-062	24	62	TL30HD-240-031	2 x 24	31			

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