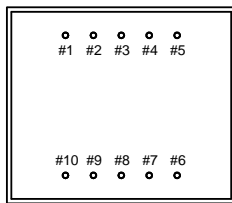


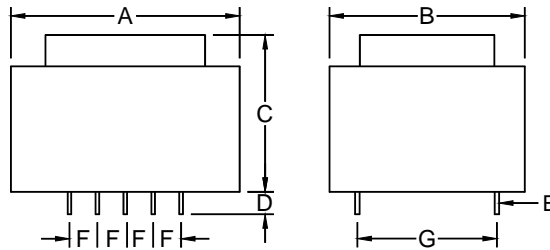


Type EI38 / 13.6

- Power – 3.2/3.5/4.0VA
- Frequency – 50/60 Hz
- Temperature class – Class B (130°C)
- Ambient temperature (ta) – 70°C
- Dielectric strength – 4000Vrms
- Potted under vacuum
- Agency approvals – C-UL: CSA C22.2 #66; UL: UL506; TUV: EN61558 / EN60950; CE



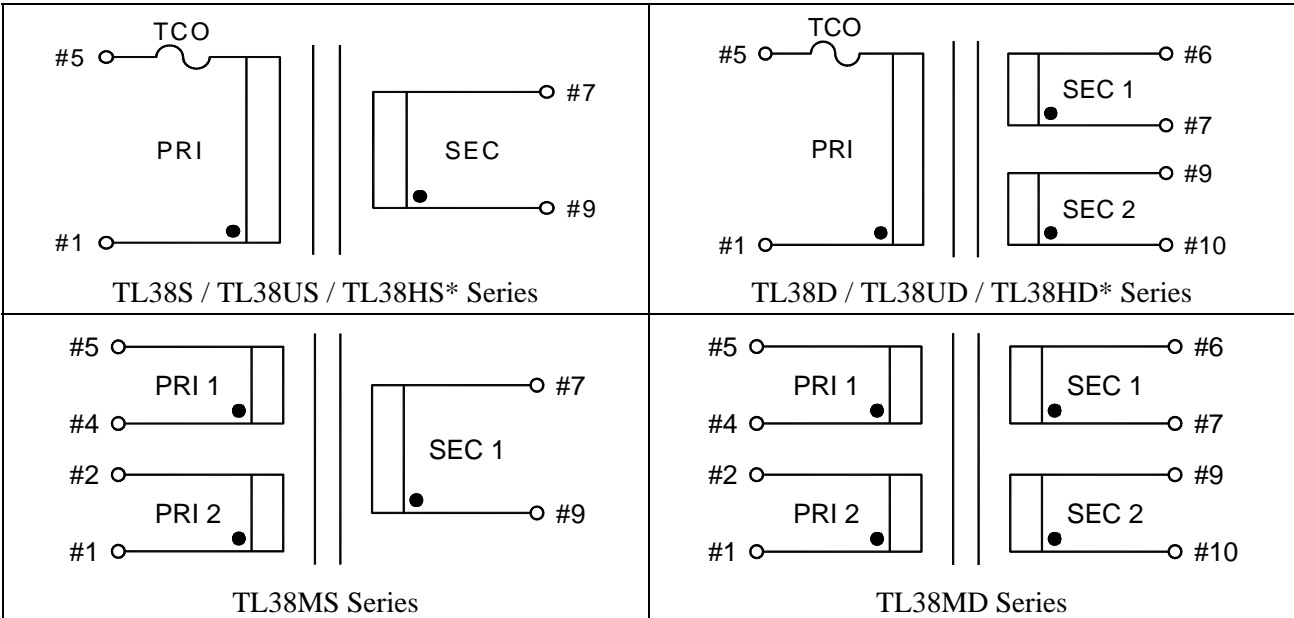
Bottom View



	A	B	C	D	E	F	G	Weight (g)
Dimension (mm)	41.0	35.0	28.0	4.0	SQ0.64	5.0	25.0	145
Tolerance (mm)	±0.5	±0.5	±0.5	±1.0	±0.1	±0.2	±0.5	approx.

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

Schematics



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)

* The TCO is omitted for the TL38HS & TL38HD series.

THAI LIN RADIO

since 1975

STANDARD
ENCAPSULATED
TRANSFORMER
TYPE EI38 / 13.6

Product Series	Primary (V)	Single Secondary			Dual Secondary			ta (°C)	Agency Approval		
		Part Number	Secondary Rating		Part Number	Secondary Rating					
			(V)	(mA)		(V)	(mA)				
3.2VA	230	TL38S-060-533	6	533	TL38D-060-266	2 x 6	266	70	TUV CE		
		TL38S-072-444	7.2	444	TL38D-072-222	2 x 7.2	222				
		TL38S-090-355	9	355	TL38D-090-177	2 x 9	177				
		TL38S-100-320	10	320	TL38D-100-160	2 x 10	160				
		TL38S-120-266	12	266	TL38D-120-133	2 x 12	133				
		TL38S-150-213	15	213	TL38D-150-106	2 x 15	106				
		TL38S-180-177	18	177	TL38D-180-088	2 x 18	88				
		TL38S-240-133	24	133	TL38D-240-066	2 x 24	66				
	115	TL38US-060-533	6	533	TL38UD-060-266	2 x 6	266	70	UL C-UL		
		TL38US-072-444	7.2	444	TL38UD-072-222	2 x 7.2	222				
		TL38US-090-355	9	355	TL38UD-090-177	2 x 9	177				
		TL38US-100-320	10	320	TL38UD-100-160	2 x 10	160				
TL38US-120-266		12	266	TL38UD-120-133	2 x 12	133					
TL38US-150-213		15	213	TL38UD-150-106	2 x 15	106					
TL38US-180-177		18	177	TL38UD-180-088	2 x 18	88					
TL38US-240-133		24	133	TL38UD-240-066	2 x 24	66					
115 (Parallel) or 230 (Series)	TL38MS-060-533	6	533	TL38MD-060-266	2 x 6	266	70	UL C-UL TUV CE			
	TL38MS-072-444	7.2	444	TL38MD-072-222	2 x 7.2	222					
	TL38MS-090-355	9	355	TL38MD-090-177	2 x 9	177					
	TL38MS-100-320	10	320	TL38MD-100-160	2 x 10	160					
	TL38MS-120-266	12	266	TL38MD-120-133	2 x 12	133					
	TL38MS-150-213	15	213	TL38MD-150-106	2 x 15	106					
	TL38MS-180-177	18	177	TL38MD-180-088	2 x 18	88					
	TL38MS-240-133	24	133	TL38MD-240-066	2 x 24	66					
	400	TL38HS-060-533	6	533	TL38HD-060-266	2 x 6			266	70	--
		TL38HS-072-444	7.2	444	TL38HD-072-222	2 x 7.2			222		
		TL38HS-090-355	9	355	TL38HD-090-177	2 x 9			177		
		TL38HS-100-320	10	320	TL38HD-100-160	2 x 10			160		
TL38HS-120-266		12	266	TL38HD-120-133	2 x 12	133					
TL38HS-150-213		15	213	TL38HD-150-106	2 x 15	106					
TL38HS-180-177		18	177	TL38HD-180-088	2 x 18	88					
TL38HS-240-133		24	133	TL38HD-240-066	2 x 24	66					
3.5VA	230	TL38S-060-583	6	583	TL38D-060-291	2 x 6	291	70	TUV CE		
		TL38S-072-486	7.2	486	TL38D-072-243	2 x 7.2	243				
		TL38S-090-388	9	388	TL38D-090-194	2 x 9	194				
		TL38S-100-350	10	350	TL38D-100-175	2 x 10	175				
		TL38S-120-291	12	291	TL38D-120-145	2 x 12	145				
		TL38S-150-233	15	233	TL38D-150-116	2 x 15	116				
		TL38S-180-194	18	194	TL38D-180-097	2 x 18	97				
		TL38S-240-145	24	145	TL38D-240-072	2 x 24	72				
	115	TL38US-060-583	6	583	TL38UD-060-291	2 x 6	291	70	UL C-UL		
		TL38US-072-486	7.2	486	TL38UD-072-243	2 x 7.2	243				
		TL38US-090-388	9	388	TL38UD-090-194	2 x 9	194				
		TL38US-100-350	10	350	TL38UD-100-175	2 x 10	175				
		TL38US-120-291	12	291	TL38UD-120-145	2 x 12	145				
		TL38US-150-233	15	233	TL38UD-150-116	2 x 15	116				
		TL38US-180-194	18	194	TL38UD-180-097	2 x 18	97				
		TL38US-240-145	24	145	TL38UD-240-072	2 x 24	72				

Product Series	Primary (V)	Single Secondary			Dual Secondary			ta (°C)	Agency Approval
		Part Number	Secondary Rating		Part Number	Secondary Rating			
			(V)	(mA)		(V)	(mA)		
3.5VA	115 (Parallel) or 230 (Series)	TL38MS-060-583	6	583	TL38MD-060-291	2 x 6	291	70	UL C-UL TUV CE
		TL38MS-072-486	7.2	486	TL38MD-072-243	2 x 7.2	243		
		TL38MS-090-388	9	388	TL38MD-090-194	2 x 9	194		
		TL38MS-100-350	10	350	TL38MD-100-175	2 x 10	175		
		TL38MS-120-291	12	291	TL38MD-120-145	2 x 12	145		
		TL38MS-150-233	15	233	TL38MD-150-116	2 x 15	116		
		TL38MS-180-194	18	194	TL38MD-180-097	2 x 18	97		
		TL38MS-240-145	24	145	TL38MD-240-072	2 x 24	72		
	400	TL38HS-060-583	6	583	TL38HD-060-291	2 x 6	291	70	--
		TL38HS-072-486	7.2	486	TL38HD-072-243	2 x 7.2	243		
		TL38HS-090-388	9	388	TL38HD-090-194	2 x 9	194		
		TL38HS-100-350	10	350	TL38HD-100-175	2 x 10	175		
		TL38HS-120-291	12	291	TL38HD-120-145	2 x 12	145		
		TL38HS-150-233	15	233	TL38HD-150-116	2 x 15	116		
TL38HS-180-194		18	194	TL38HD-180-097	2 x 18	97			
TL38HS-240-145		24	145	TL38HD-240-072	2 x 24	72			
4.0VA	230	TL38S-060-666	6	666	TL38D-060-333	2 x 6	333	70	TUV CE
		TL38S-072-556	7.2	556	TL38D-072-278	2 x 7.2	278		
		TL38S-090-444	9	444	TL38D-090-222	2 x 9	222		
		TL38S-100-400	10	400	TL38D-100-200	2 x 10	200		
		TL38S-120-333	12	333	TL38D-120-167	2 x 12	167		
		TL38S-150-267	15	267	TL38D-150-133	2 x 15	133		
		TL38S-180-222	18	222	TL38D-180-111	2 x 18	111		
		TL38S-240-167	24	167	TL38D-240-083	2 x 24	83		
	115	TL38US-060-666	6	666	TL38UD-060-333	2 x 6	333	70	UL C-UL
		TL38US-072-556	7.2	556	TL38UD-072-278	2 x 7.2	278		
		TL38US-090-444	9	444	TL38UD-090-222	2 x 9	222		
		TL38US-100-400	10	400	TL38UD-100-200	2 x 10	200		
		TL38US-120-333	12	333	TL38UD-120-167	2 x 12	167		
		TL38US-150-267	15	267	TL38UD-150-133	2 x 15	133		
TL38US-180-222		18	222	TL38UD-180-111	2 x 18	111			
TL38US-240-167		24	167	TL38UD-240-083	2 x 24	83			
115 (Parallel) or 230 (Series)	TL38MS-060-666	6	666	TL38MD-060-333	2 x 6	333	70	UL C-UL TUV CE	
	TL38MS-072-556	7.2	556	TL38MD-072-278	2 x 7.2	278			
	TL38MS-090-444	9	444	TL38MD-090-222	2 x 9	222			
	TL38MS-100-400	10	400	TL38MD-100-200	2 x 10	200			
	TL38MS-120-333	12	333	TL38MD-120-167	2 x 12	167			
	TL38MS-150-267	15	267	TL38MD-150-133	2 x 15	133			
	TL38MS-180-222	18	222	TL38MD-180-111	2 x 18	111			
	TL38MS-240-167	24	167	TL38MD-240-083	2 x 24	83			
400	TL38HS-060-666	6	666	TL38HD-060-333	2 x 6	333	70	--	
	TL38HS-072-556	7.2	556	TL38HD-072-278	2 x 7.2	278			
	TL38HS-090-444	9	444	TL38HD-090-222	2 x 9	222			
	TL38HS-100-400	10	400	TL38HD-100-200	2 x 10	200			
	TL38HS-120-333	12	333	TL38HD-120-167	2 x 12	167			
	TL38HS-150-267	15	267	TL38HD-150-133	2 x 15	133			
	TL38HS-180-222	18	222	TL38HD-180-111	2 x 18	111			
	TL38HS-240-167	24	167	TL38HD-240-083	2 x 24	83			

Note: TL38S & TL38D series are fail-safe transformers
 TL38MS, TL38MD, TL38HS & TL38HD series are non-short-circuit proof transformers