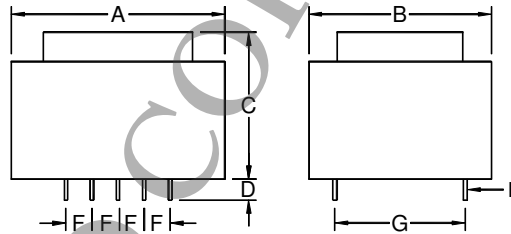
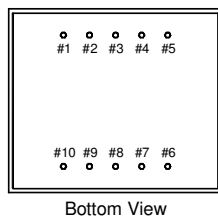




Type EI38 / 13.6

- 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
 - TUV / CE: EN61558 / EN60950
 - UL: UL506; UL5085-1 / -2
 - C-UL: CSA C22.2 #66 / #66.1 / #66.2

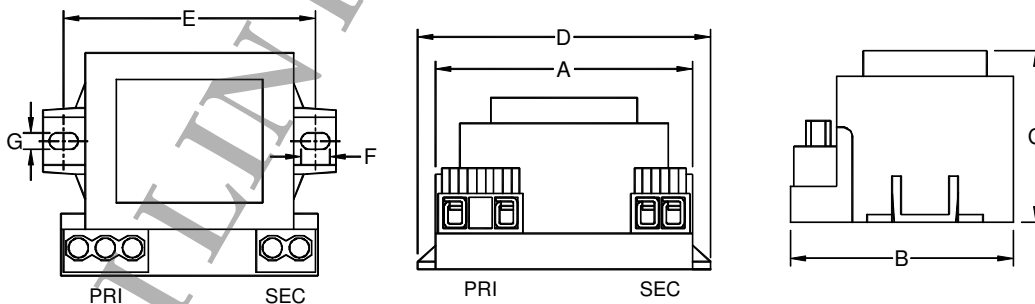
Potting Shell



	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.

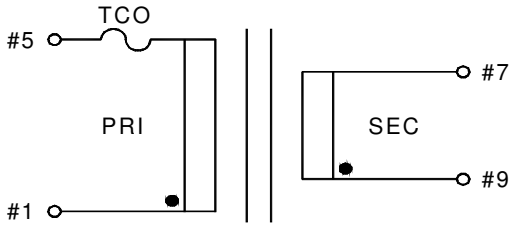
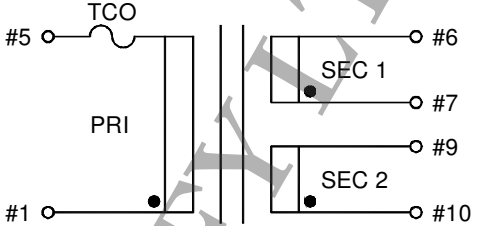
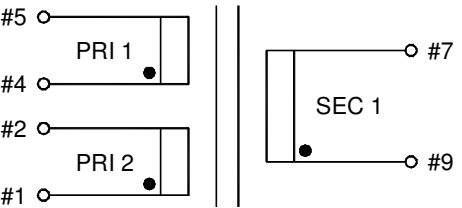
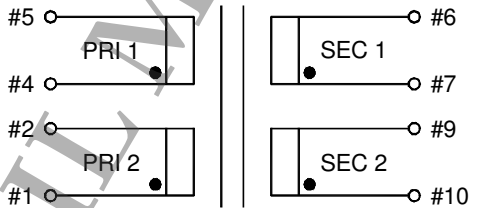
Note: 1) Unused pins are omitted for standard parts. Unused pins can be provided upon request.
2) Suffix "(Z)" indicates the product with providing unused Pin #8.

Style – Terminal Block



	A	B	C	D	E	F	G	Weight (g)
Dimension (mm)	50.0	43.4	33.4	57.0	49.0	5.6	3.2	170
Tolerance (mm)	±1.0	±1.0	±1.0	±1.0	±0.5	±0.5	±0.2	approx.

Schematics

 <p>TL38S / TL38US / TL38HS* Series</p>	 <p>TL38D / TL38UD / TL38HD* Series</p>		
 <p>TL38MS Series</p>	 <p>TL38MD Series</p>		
<p>Pins Connection (for dual windings items)</p>	<p>Primary</p>	<p>In Series In Parallel</p>	<p>Pin 1 – Pin 5 (Pins 2, 4 short) Pin 1 – Pin 5 (Pins 1, 4 short; Pins 2, 5 short)</p>
	<p>Secondary</p>	<p>In Series In Parallel</p>	<p>Pin 7 – Pin 9 (Pins 6, 10 short) Pin 7 – Pin 9 (Pins 7, 10 short; Pins 6, 9 short)</p>

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

Part Number Designation

Two designations are available. Use TL38S-060-533 as example:

- 1) TL38S-060-533 = Potting Shell
- 2) TL38S-060-533TB = Terminal Block Style

Note:

- a) Terminal block style is only available for the single primary + single secondary items.
- b) Terminal block style is only available for “TUV / CE” approved items.
- c) 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)		
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	UL506 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	UL5085-1/-2 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	UL5085-1/-2 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		

Note: 1) TL38S & TL38D series are fail-safe transformers.

2) TL38MS, TL38MD, TL38HS & TL38HD series are non-short-circuit proof transformers.

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	UL5085-1/-2 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	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	115	TL38US-060-666	6	666	TL38UD-060-333	2 x 6	333	70	UL506 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					
400	115 (Parallel) or 230 (Series)	TL38MS-060-666	6	666	TL38MD-060-333	2 x 6	333	70	UL5085-1/-2 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	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: 1) TL38S & TL38D series are fail-safe transformers.
2) TL38MS, TL38MD, TL38HS & TL38HD series are non-short-circuit proof transformers.