



# T74090 & T74091 SERIES

## 1-9W, E16, Single Output, Flyback Transformer Tinyswitch (Ferrite Core)

### FEATURES

- Primary / Secondary Insulation  $\geq 4000V$
- Creepage distances Primary / secondary  $\geq 6mm$

### OPTIONS

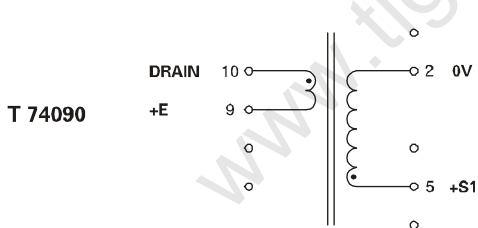
- Bulk packaging is standard
- Custom design available

### APPLICATIONS

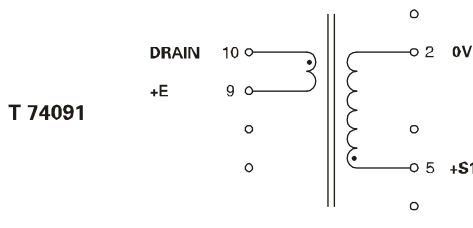
- AC-DC converters
- DC-DC converters
- Switch Power supplies
- SMPS: Flyback, Forward and Push-pull
- SMPS: Half Bridge and Full Bridge

74090							
Control IC Manufacturer		Control IC P/N		Input voltage	Power	Frequency	
Power Integrations		TNY254		85 - 265 Vrms	1.5W	44 kHz	
74091							
Control IC Manufacturer		Control IC P/N		Input voltage	Power	Frequency	
Power Integrations		TNY254		85 - 265 Vrms	1.5W	44 kHz	
SIZE E16 - SINGLE OUTPUT : 5 or 12V TRANSFORMER FOR TINYSWITCH							
Part Number	Output Power max	Windings					
			Pins	Turns	Voltage	Current max	Inductance ( $\pm 10\%$ )
T 74090	1.5W	Pri	10-9	228	50-95 (VOR)	0.28 Apeak	6000 $\mu$ H
		S1	5-2	16	3.3-6 Vdc	0.4 Adc	
T 74091	1.5W	Pri	10-9	228	65-130 (VOR)	0.28 Apeak	6000 $\mu$ H
		S1	5-2	28	7.5 - 15 Vdc	0.2 Adc	

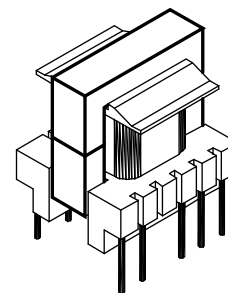
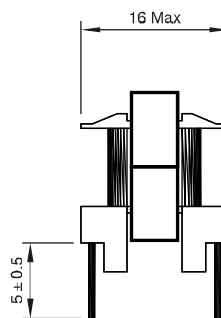
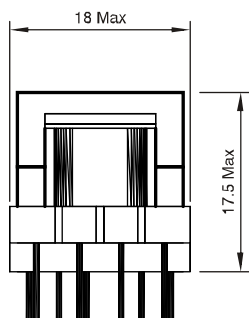
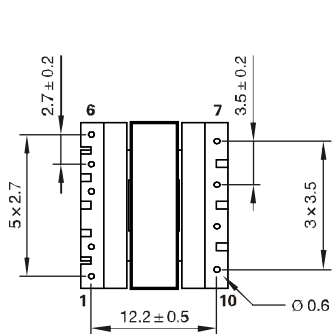
- Ambient temperature  $< 85^{\circ}C$
- Construction conforms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94V0 listed materials



Note: Regulation with auxiliary winding



Note: PIN 3 Removed, PCB Drilling Diameter = 1.1mm



All dimensions in mm



# T74092 & T74093 SERIES

## 1-9W, E16, Single Output, Flyback Transformer Tinyswitch (Ferrite Core)

### FEATURES

- Primary / Secondary Insulation  $\geq 4000V$
- Creepage distances Primary / secondary  $\geq 6mm$

### OPTIONS

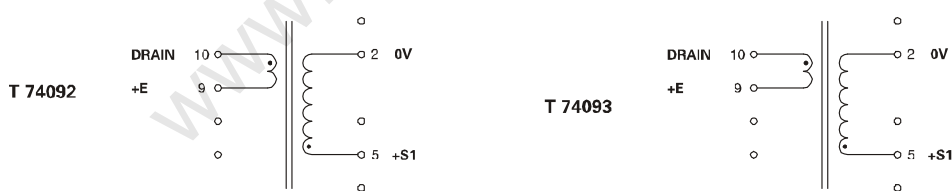
- Bulk packaging is standard
- Custom design available

### APPLICATIONS

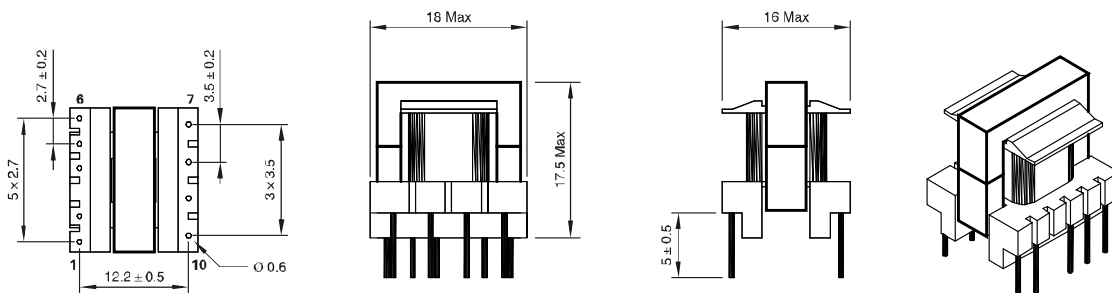
- AC-DC converters
- DC-DC converters
- Switch Power supplies
- SMPS: Flyback, Forward and Push-pull
- SMPS: Half Bridge and Full Bridge

74092							
Control IC Manufacturer		Control IC P/N		Input voltage		Power	Frequency
Power Integrations		TNY254		85 - 265 Vrms		3.1W	44 kHz
74093							
Control IC Manufacturer		Control IC P/N		Input voltage <sub>Ein</sub>		Power	Frequency
Power Integrations		TNY254		85 - 265 Vrms		3.1W	44 kHz
SIZE E16 - SINGLE OUTPUT : 5 or 12V TRANSFORMER FOR TINYSWITCH							
Part Number	Output Power	Windings					
	max		Pins	Turns	Voltage	Current max	Inductance (+/-10%)
T74092	3.1W	Pri	10-9	191	55-100 (VOR)	0.34 Apeak	4200 $\mu$ H
		S1	5-2	13	3.3-6 Vdc	0.9 Adc	
T74093	3.1W	Pri	10-9	191	65-125 (VOR)	0.34 Apeak	4200 $\mu$ H
		S1	5-2	24	7.5 - 15 Vdc	0.4 Adc	

- Ambient temperature  $<70^{\circ}C$
- Construction conforms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94V0 listed materials



Note: Regulation with auxiliary winding      Note: PIN 3 Removed, PCB Drilling Diameter = 1.1mm



All dimensions in mm



# T74092 & T74093 SERIES

## 1-9W, EI6, Single Output, Flyback Transformer Tinyswitch (Ferrite Core)

### FEATURES

- Primary / Secondary Insulation  $\geq 4000V$
- Creepage distances Primary / secondary  $\geq 6mm$

### OPTIONS

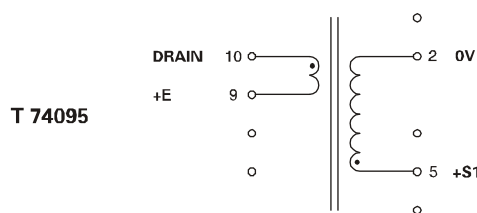
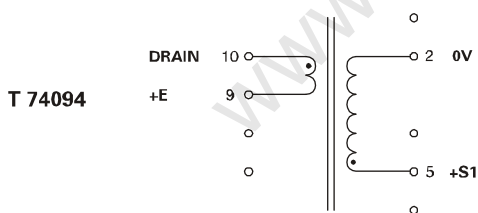
- Bulk packaging is standard
- Custom design available

### APPLICATIONS

- AC-DC converters
- DC-DC converters
- Switch Power supplies
- SMPS: Flyback, Forward and Push-pull
- SMPS: Half Bridge and Full Bridge

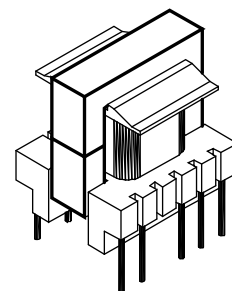
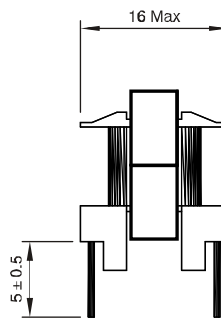
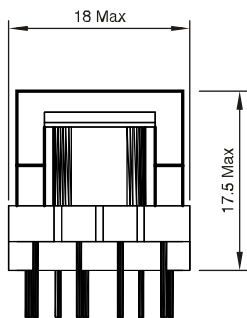
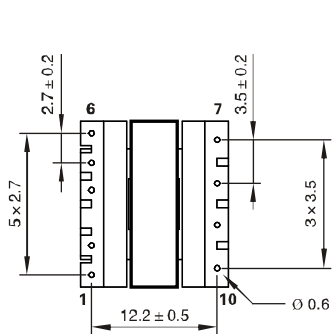
T74094						
Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency		
Power Integrations	TNY255	85 - 265 Vrms	4.2W	44 kHz		
Power Integrations	TNY264	85 - 265 Vrms	5W	132 kHz		
Power Integrations	TNY266	85 - 265 Vrms	2W	132 kHz		
T74095						
Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency		
Power Integrations	TNY255	85 - 265 Vrms	5W	44 kHz		
Power Integrations	TNY264	85 - 265 Vrms	5W	132 kHz		
Power Integrations	TNY266	85 - 265 Vrms	9W	132 kHz		
SIZE E16 - SINGLE OUTPUT : 5 or 12V TRANSFORMER FOR TINYSWITCH						
Part Number	Output Power max	Windings				Inductance ( $\pm 10\%$ )
		Pins	Turns	Voltage	Current max	
T 74094	9W	Pri	10-9	135	55-100 (VOR)	2100 $\mu$ H
		S1	5-2	9	3.3-6 Vdc	
T 74095	9W	Pri	10-9	135	65-125 (VOR)	2100 $\mu$ H
		S1	5-2	17	7.5 - 15 Vdc	

- Ambient temperature  $< 60^{\circ}C$
- Construction conforms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94V-0 listed materials



Note: Regulation with auxiliary winding

Note: PIN 3 Removed, PCB Drilling Diameter = 1.1mm



All dimensions in mm