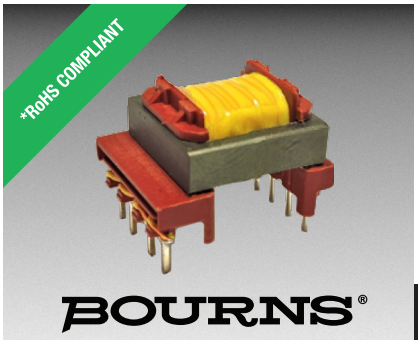



## Features

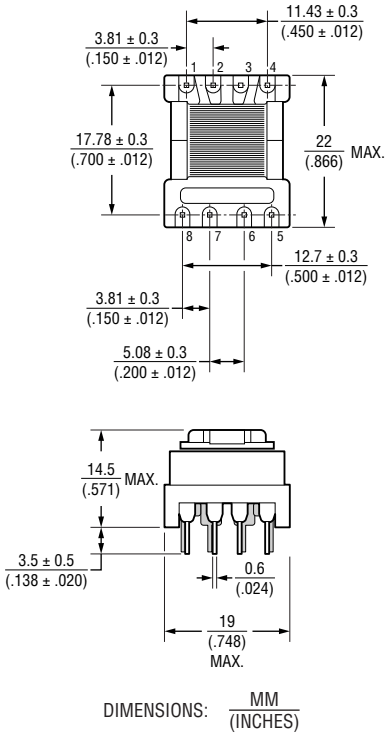
- High clearance and creepage distance transformer
- Reinforced insulation – 400 V working voltage
- Assists in compliance with EN 62368, EN 60335 and EN 61558 standards
- VDE approved
- RoHS compliant*

# Model 093830 SP-E 16/5 Flyback Transformer

### Electrical Specifications @ 25 °C

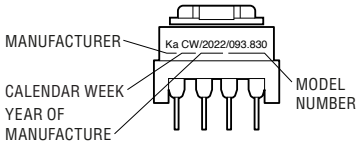
| | |
|---|---|
| Nominal Inductance | 1.58 mH ±12 % |
| Maximum Transmissible Power | 8 W |
| Working Frequency | 132 kHz |
| Transformation Ratio | 4 : 18,5 : 1 : 1 |
| Dielectric Strength | Primary-Secondary 4.2 kV/50 Hz/1 sec. |
| Leakage Inductance | 62 µH max. |
| Operating Temperature | -25 °C to +125 °C |
| Storage Temperature | -25 °C to +85 °C |
| Moisture Sensitivity Level | N/A |
| ESD Classification (HBM) | N/A |

### Product Dimensions

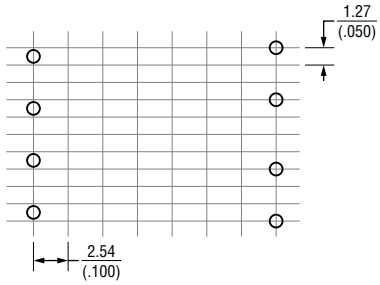



DIMENSIONS: MM / (INCHES)

### Typical Part Marking




### Recommended PCB Layout




DIMENSIONS: MM / (INCHES)

### How to Order

Order by Model No ..... 093830

### Packaging Specifications

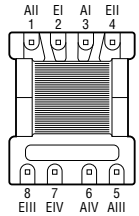
Bulk..... 250 pcs. per tray

### Additional Information

Click these links for more information:

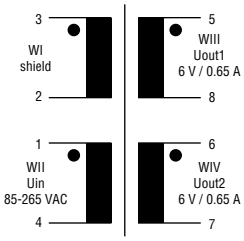
PRODUCT | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

### Windings




AI, AII, AIII, AIV
..... Start of Winding No. I, II, III, IV
EI, EII, EIII, EIV
.....End of Winding No. I, II, III, IV

### Schematic




**WARNING**
**Cancer and Reproductive Harm**
www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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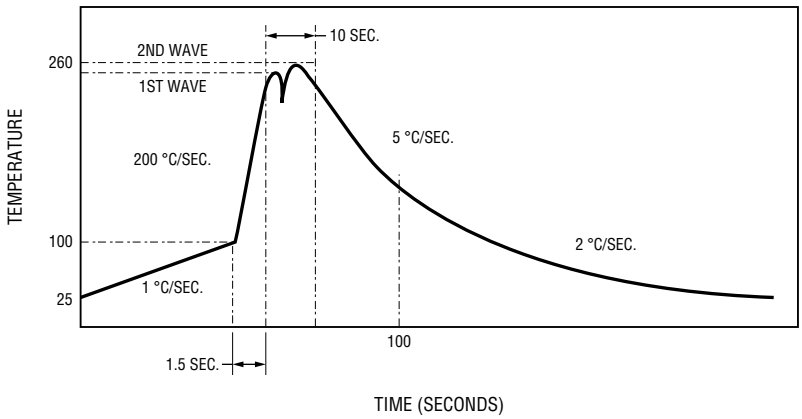
## Applications

- Flyback transformer with reinforced insulation for switched-mode power supplies
- Designed for use in SMPS applications based on semiconductors from various AC-DC conversion silicon manufacturers

# Model 093830 SP-E 16/5 Flyback Transformer

BOURNS®

### Solder Profile




| Profile Feature | Pb-Free Assembly |
|---|---|
| Average ramp-up rate | ~ 200 °C/second |
| Heating rate during preheat | typical 1-2 °/second<br>max. 4 °/second |
| Final preheat temperature | within 125 °C of soldering temperature |
| Peak temperature $T_p$ | 260 °C |
| Time within +0 °C / -5 °C of actual peak temperature | 10 seconds |
| Ramp-down rate | 5 °C/second max. |


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