

# MODEL HM00-93839

Low Profile

Dual-Output

Surface Mount Inductors



## FEATURES AND BENEFITS

- Low profile surface mount design
- Low core loss, high efficiency
- Compatible with surface mount process temperatures
- Base material meets UL 94V-0 requirements
- Used in combination with Linear Technology switching regulator LTC 1149

## APPLICATIONS

- Notebook computers

## ELECTRICAL / ENVIRONMENTAL

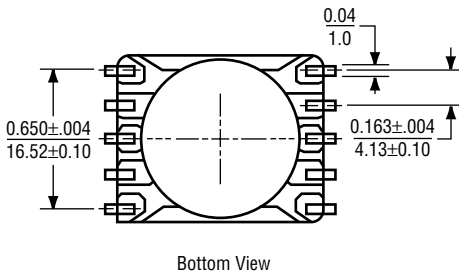
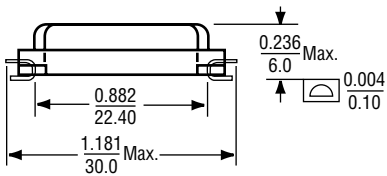
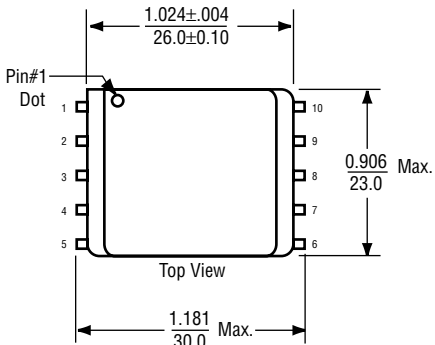
|                                |                 |
|--------------------------------|-----------------|
| Insulation Resistance, Minimum | 100 Megohm      |
| Operating Temperature Range    | -40°C to +130°C |
| Ambient Temperature, Maximum   | 80°C            |
| Insulation System              | Class B, 130°C  |

## SPECIFICATIONS

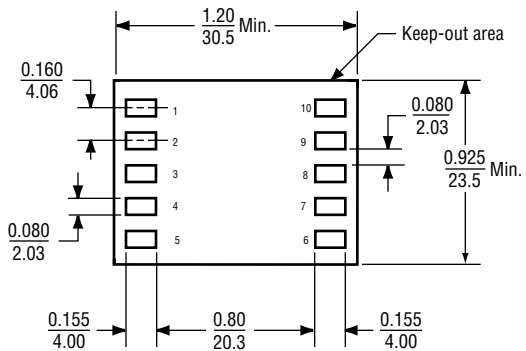
|                                                                |                                                             |
|----------------------------------------------------------------|-------------------------------------------------------------|
| Primary Inductance at 1.0 kHz (Strap Terminals 2 & 8)<br>(1-7) | 17.4 $\mu$ H $\pm$ 15%                                      |
| Winding DC Resistance, Maximum<br>(1-8), (2-7), (3-6)          | 20 m $\Omega$                                               |
| Input Voltages                                                 | 8V to 24V                                                   |
| Output Power                                                   | Combination of 3.3V and 5V loads, totaling 17 watts or less |
| Dielectric Breakdown Voltage                                   | 300 Vdc                                                     |

Specifications subject to change without notice.

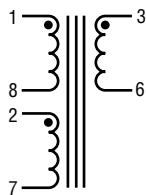
### OUTLINE DIMENSIONS (Inch/mm)



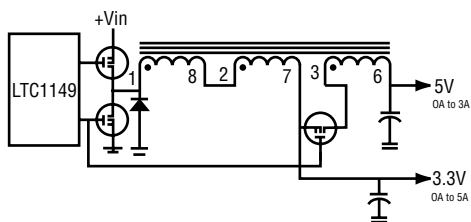
## Recommended PCB Layout



## SCHEMATIC



## TYPICAL APPLICATION DIAGRAM



## PACKAGING

**Standard:** Tray Pack

|      |          |   |          |
|------|----------|---|----------|
| Tray | Capacity | = | 40 Units |
|------|----------|---|----------|

**Option:** Embossed Tape & Reel

|      |          |   |             |
|------|----------|---|-------------|
| Reel | Diameter | = | 13" (330mm) |
|      | Capacity | = | 200 Units   |