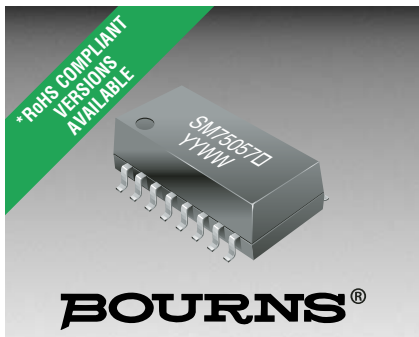




## Features

- Low height of 5.65 mm
- Operating temperature -40 °C to +85 °C
- Lead free version available (see How to Order)
- Lead free versions are RoHS compliant\*

## Applications

- Telecom

# SM75057E - T1/E1 Transformer

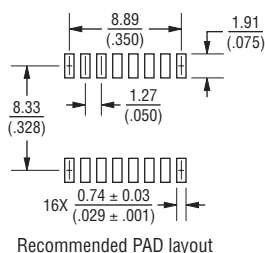
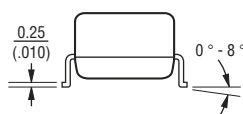
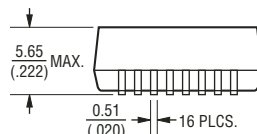
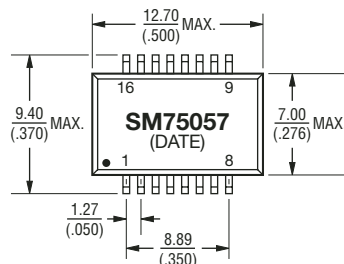
## Electrical Specifications @ 25 °C

|                         |                                                |     |
|-------------------------|------------------------------------------------|-----|
| OCL (1-3)               | mH min. @ 10 kHz, 0.1 V                        | 1.2 |
| OCL (6-8)               | mH min. @ 10 kHz, 0.1 V                        | 1.2 |
| OCL (1-3)               | μH min. @ 10 kHz, 0.1 V,<br>(-40 °C to +85 °C) | 600 |
| OCL (6-8)               | μH min. @ 10 kHz, 0.1 V,<br>(-40 °C to +85 °C) | 600 |
| L <sub>1</sub> (1-3)    | μH max. @ 100 kHz, 0.1 V<br>short (16-14)      | 0.6 |
| L <sub>1</sub> (6-8)    | μH max. @ 100 kHz, 0.1 V<br>short (11-9)       | 0.6 |
| C <sub>ww</sub> (16-1)  | pF max. @ 100 kHz, 0.1 V                       | 30  |
| C <sub>ww</sub> (11-6)  | pF max. @ 100 kHz, 0.1 V                       |     |
| 30 Turns Ratio          |                                                |     |
| (1-3) : (16-14)         | 1 : 2 ± 2 %                                    |     |
| (6-8) : (11-9)          | 1 : 2 ± 2 %                                    |     |
| DCR (1-3)               | 0.5 to 0.8 ohm                                 |     |
| DCR (6-8)               | 0.5 to 0.8 ohm                                 |     |
| DCR (16-14)             | 0.9 to 1.6 ohm                                 |     |
| DCR (11-9)              | 0.9 to 1.6 ohm                                 |     |
| Polarity (1, 16, 6, 11) | Same phase                                     |     |
| HIPOT                   |                                                |     |
| Between Windings        | 2000 VAC                                       |     |

## Packaging Specifications

|             |               |
|-------------|---------------|
| Tape & Reel | 700 pcs./reel |
|-------------|---------------|

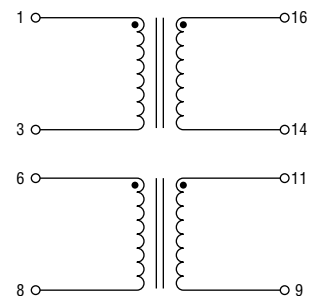
## Product Dimensions



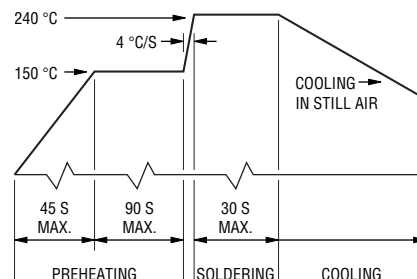
DIMENSIONS ARE:  $\frac{\text{MM}}{(\text{INCHES})}$

TOLERANCE:  $\pm \frac{0.254}{(.010)}$

## Electrical Schematic



## Soldering Profile



## How to Order

Model **SM75057E**

Termination \_\_\_\_\_  
 Blank = Tin-lead  
 L = Tin only (lead free)