



## SM76315 Transformer

### FEATURES

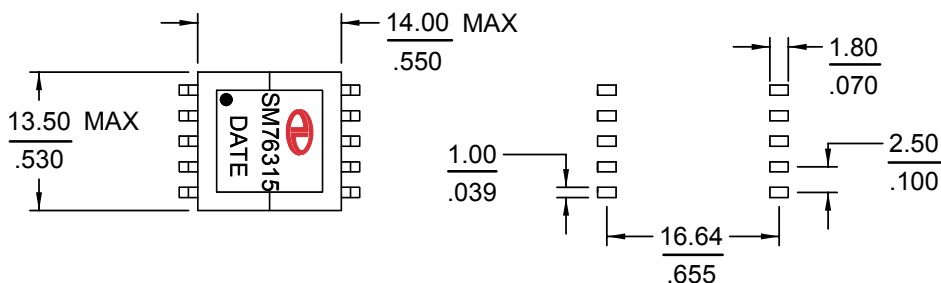
- Designed for use with Silicon Laboratories ProSlic® Devices Si3210M, Si3215M and Si3216M
- Operating Temperature Range -40°C to +125°C
- Isolation Voltage rating between primary and secondary: 500 VDC
- Peak current per primary winding (1-2) (2-3) (3-4): 2 amps



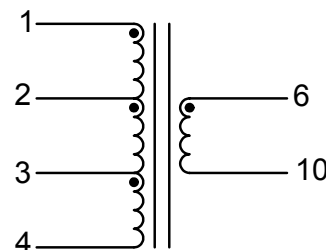
### ELECTRICAL SPECIFICATIONS AT 25°C

|             |                                       |
|-------------|---------------------------------------|
| OCL (1-4)   | 107µH ±10% @100kHz 0.1V               |
| DCR (1-2)   | 0.080 Ω max.                          |
| DCR (2-3)   | 0.080 Ω max.                          |
| DCR (3-4)   | 0.080 Ω max.                          |
| DCR (6-10)  | 1.00 Ω max.                           |
| TURNS RATIO | 40:8:8:8 ±1% (6-10):(1-2):(2-3):(3-4) |
| POLARITY    | 6,1 SAME PHASE                        |

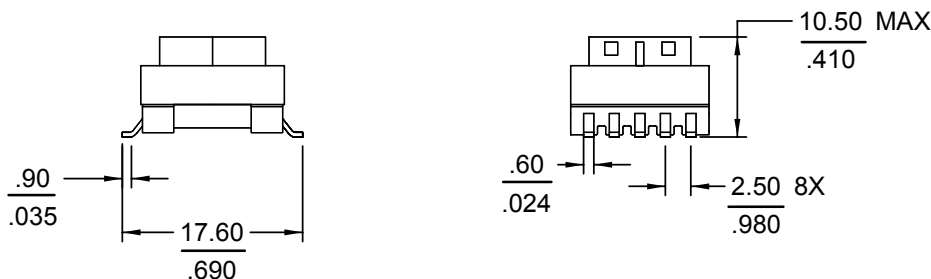
### MECHANICAL DIMENSIONS



SUGGESTED PAD LAYOUT



Schematic



Notes:

1. All dimensions are mm/inches
2. Unless otherwise specified tolerance ±0.25/0.010
3. Coplanarity: 0.102/0.004
4. For non-RoHS parts replace SM prefix with 42- (e.g. SM76315 becomes 42-76315)
5. Terminal finish is compliant to RoHS requirements. Solder in accordance with J-STD-020C