

Features

- Small height of 5.65 mm
- Operating temperature -40 °C to +85 °C
- RoHS compliant*



This series is obsolete and not recommended for new designs. **SM75056PEL** is a possible alternative.

Applications

- Telecom

BOURNS®

SM75056EL - 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, (-40 °C to +85 °C)	600
OCL (6-8)	μH min. @ 10 kHz, 0.1 V, (-40 °C to +85 °C)	600
LL (1-3)	μH max. @ 100 kHz, 0.1 V short (16-14).....	0.6
LL (6-8)	μH max. @ 100 kHz, 0.1 V short (11-9).....	0.6
Cww (16-1)	pF max. @ 100 kHz, 0.1 V	30
Cww (11-6)	pF max. @ 100 kHz, 0.1 V	30
Turns Ratio	(1-3) : (16-14)	1 : 1.26 ±2 %
	(6-8) : (11-9)	1 : 1.26 ±2 %
DCR (1-3)	0.8 ohm max.
DCR (6-8)	0.8 ohm max.
Polarity (1, 16, 6, 11)	Same phase
HIPOT	Between Windings	2000 VAC

Contact Area of Pins on the PCB

Minimum Total Contact Area.....5 mm²

Packaging Specifications

Tape & Reel*..... 700 pcs./reel

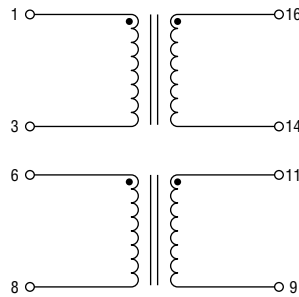
**E" suffix before "L" in part number designates tape & reel packaging, e.g. SM75056EL.

How To Order

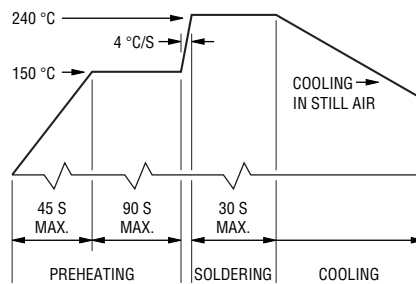
SM75056E L

Model _____
Termination _____
L = Tin only (RoHS Compliant)

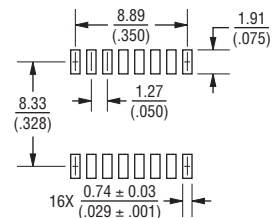
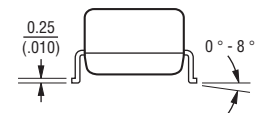
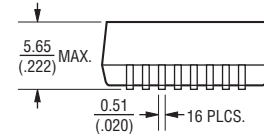
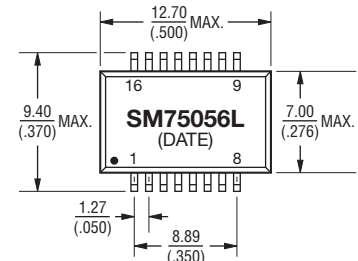
Electrical Schematic



Soldering Profile



Product Dimensions



Recommended PAD layout

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

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

REV. 08/14

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.