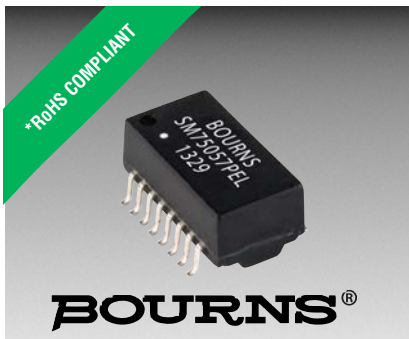




Features

- Low profile: 5.65 mm
- Wide operating temperature range: -40 to +85 °C
- RoHS compliant*

Applications

- Telecom

SM75057PEL - T1/E1 Transformer

Electrical Specifications @ 25 °C

OCL (1-3 and 6-8)	
mH min. (+25 to +85 °C)	
@ 10 kHz, 0.1 V	1.2
OCL (1-3 and 6-8)	
mH min. (-40 °C)	
@ 10 kHz, 0.1 V	0.6
L-Leakage (1-3 with 14-16 short)	
μH max. @ 100 kHz, 0.1 V	0.6
L-Leakage (6-8 with 9-11 short)	
μH max. @ 100 kHz, 0.1 V	0.6
DCR (1-3 and 6-8)	0.5 - 0.8 Ω
DCR (9-11 and 14-16)	0.9 - 1.6 Ω
Cww (1-16 and 6-11)	
pF max. @ 100 kHz, 0.1 V	30
Turns Ratio	
(1-3) : (16-14)	1 : 2 ± 5 %
(6-8) : (11-9)	1 : 2 ± 5 %
HIPOT	2K Vrms for 60 sec.
Storage Temperature	-40 to +125 °C
Operating Temperature	-40 to +85 °C

Packaging Specifications

Tape & Reel* 600 pcs./reel

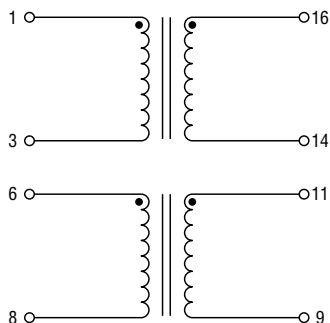
*"E" suffix before "L" in part number designates tape & reel packaging, e.g. SM75057PEL.

How To Order

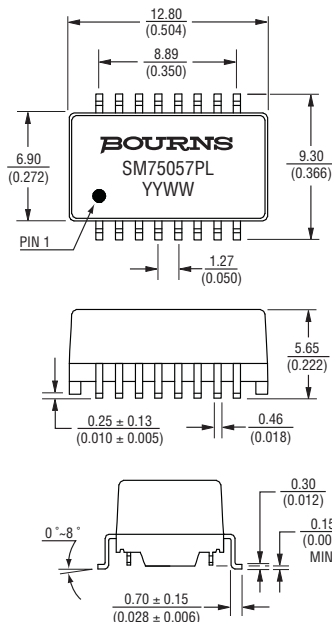
SM75057 P E L

Model	SM75057
Construction	P = Potted
Packaging	E = Tape and Reel (600 pcs./reel)
Termination	L = Tin only (RoHS Compliant)

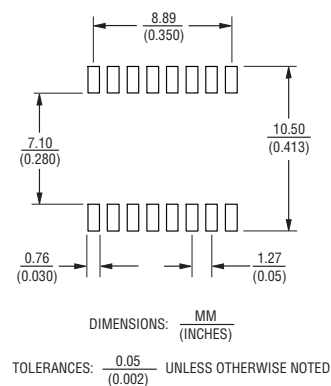
Electrical Schematic



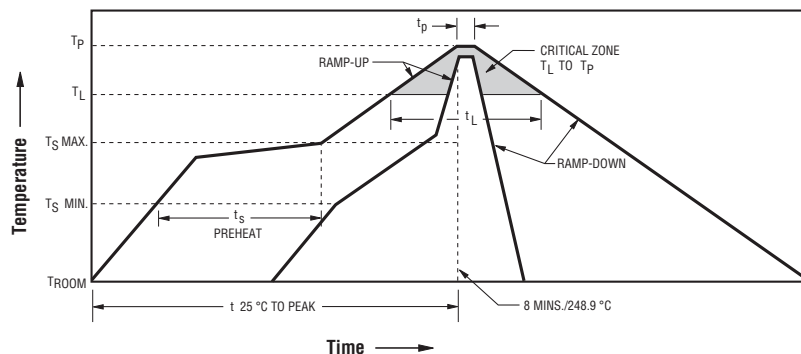
Product Dimensions



Recommended Layout



Soldering Profile



Ramp-up rate = 3 °C/sec. max.
 Ramp-down rate = 6 °C/sec. max.
 $T_L = 217\text{ °C}$ $t_L = 60\text{-}150\text{ sec.}$
 $T_p = 250\text{ °C} \pm 3\text{ °C}$
 Time within 5 °C of actual Peak Temp (t_p)2 = 20-40 sec.
 $T_S\text{ min} = 150\text{ °C}$ $T_S\text{ max} = 200\text{ °C}$
 $T_S\text{ min to } T_S\text{ max} = 60\text{-}180\text{ sec.}$, 25 °C to Peak Temperature = 8 min. max.

*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.

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Technical drawing of a 16-pin connector. The drawing includes a top view, a side view, and a cross-sectional view. Dimensions are provided in millimeters (mm) and inches (inches).

Top View Dimensions:

- Overall width: 24.0 mm (.945 in)
- Distance from left edge to first pin: 11.5 mm (.453 in)
- Pin diameter: DIA. 1.50 mm (.059 in)
- Pin pitch: 2.0 mm (.079 in)
- Distance from last pin to right edge: 4.0 mm (.157 in)
- Distance from left edge to center of first pin: 11.42 mm (.450 in)
- Distance between center of first pin and center of last pin: 16.0 mm (.630 in)
- Distance from center of last pin to right edge: 1.50 mm (.059 in)

Side View Dimensions:

- Pin height: 1.75 mm (.069 in)
- Pin thickness: 0.4 mm (.016 in)

Cross-sectional View Dimensions:

- Pin thickness: 6.52 mm (.257 in)
- Pin angle: 8°

Other Features:

- Pin 16 is labeled "PUSH-ON" and "16 PIN".
- Pin 1 is labeled "1".
- Pin 2 is labeled "2".
- Pin 3 is labeled "3".
- Pin 4 is labeled "4".
- Pin 5 is labeled "5".
- Pin 6 is labeled "6".
- Pin 7 is labeled "7".
- Pin 8 is labeled "8".
- Pin 9 is labeled "9".
- Pin 10 is labeled "10".
- Pin 11 is labeled "11".
- Pin 12 is labeled "12".
- Pin 13 is labeled "13".
- Pin 14 is labeled "14".
- Pin 15 is labeled "15".

USER DIRECTION OF FEED

600 PCS. PER REEL

DIMENSIONS: MM (INCHES)

TOLERANCES: 0.10 (0.004)

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