

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

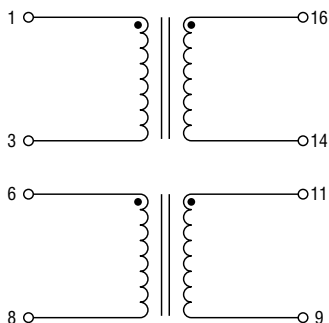
*"E" suffix before "L" in part number designates tape & reel packaging, e.g. SM75057PEL.

How To Order

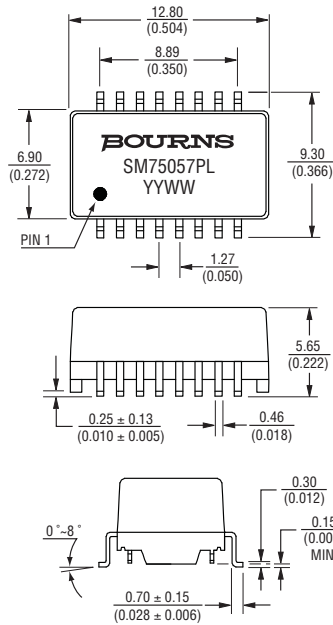
SM75057 P E L

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

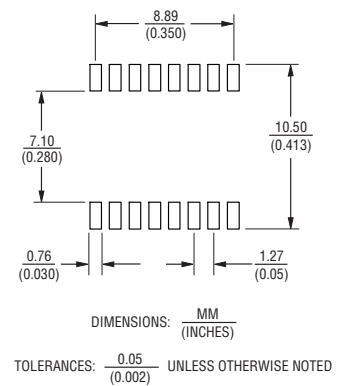
Electrical Schematic



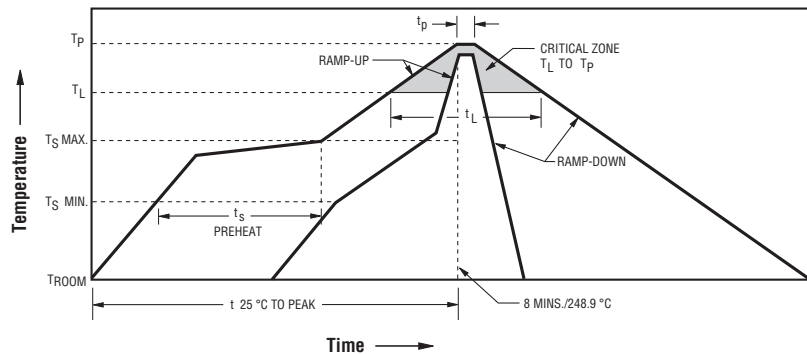
Product Dimensions



Recommended Layout



Soldering Profile



Ramp-up rate = 3 °C/sec. max.

Ramp-down rate = 6 °C/sec. max.

$T_L = 217^\circ\text{C}$ $t_L = 60\text{-}150 \text{ sec.}$

Time within 5 °C of actual Peak Temp (t_p) $^2 = 20\text{-}40 \text{ sec.}$

$T_S \text{ min} = 150^\circ\text{C}$ $T_S \text{ max} = 200^\circ\text{C}$

$T_S \text{ min to } T_S \text{ max} = 60\text{-}180 \text{ sec., } 25^\circ\text{C to Peak Temperature} = 8 \text{ min. max.}$

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

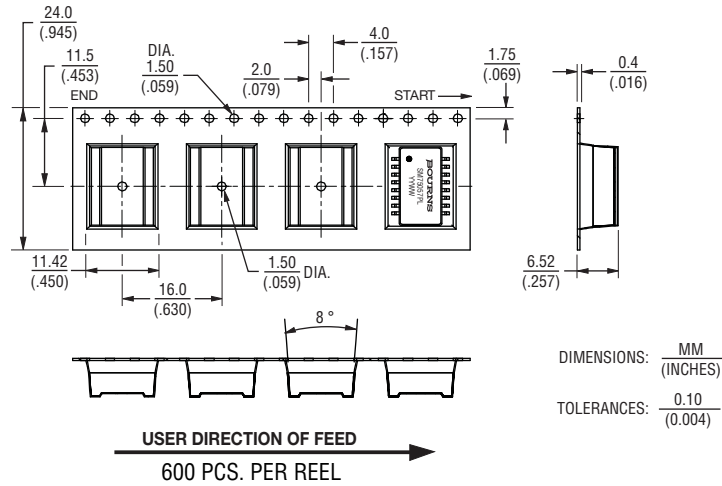
Specifications are subject to change without notice.

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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BOURNS®

Packaging Specifications



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