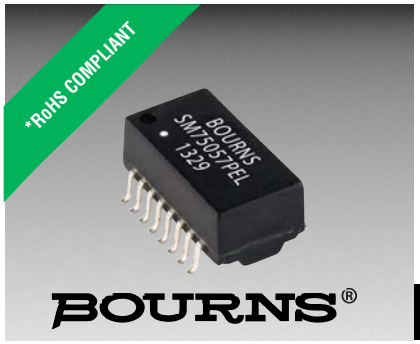


Features

- 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

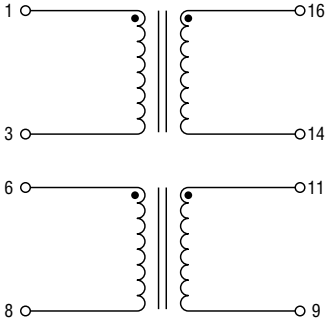
*"E" suffix before "L" in part number designates tape & reel packaging, e.g. SM75057PEL.

How To Order

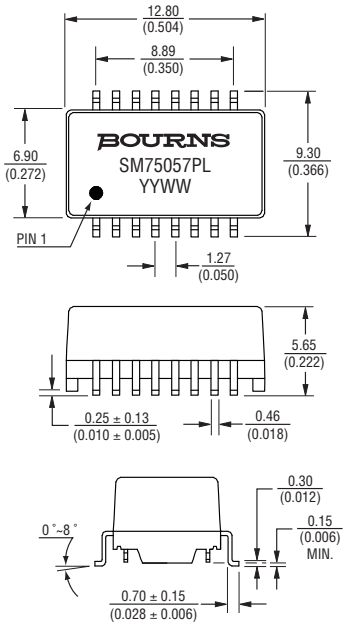
SM75057 P E L

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

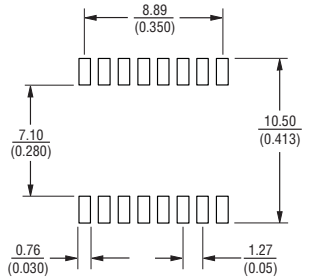
Electrical Schematic



Product Dimensions



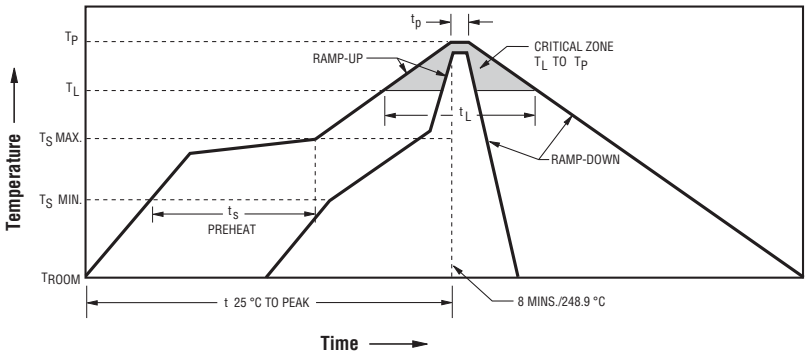
Recommended Layout



DIMENSIONS: MM (INCHES)

TOLERANCES: 0.05 (0.002) UNLESS OTHERWISE NOTED

Soldering Profile



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

WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

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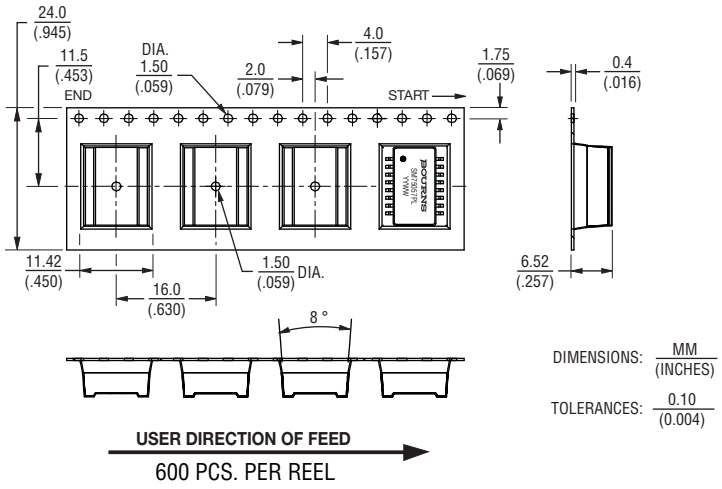
Packaging Specifications



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08/15

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