

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
OCL (1-3 and 6-8)
mH min. (-40 °C)
@ 10 kHz, 0.1 V0.6
L-Leakage (1-3 with 14-16 short)
μH max. @ 100 kHz, 0.1 V0.6
L-Leakage (6-8 with 9-11 short)
μH max. @ 100 kHz, 0.1 V0.6
DCR (1-3 and 6-8) $0.5 - 0.8 \Omega$
DCR (9-11 and 14-16) $0.9 - 1.6 \Omega$
Cww (1-16 and 6-11)
pF max. @ 100 kHz, 0.1 V
Turns Ratio
(1-3) : (16-14)1 : 2 ±5 %
(6-8) : (11-9)1 : 2 ±5 %
HIPOT 2K Vrms for 60 sec.
Storage Temperature40 to +125 °C
Operating Temperature40 to +85 °C

Packaging Specifications

Tape & Reel*..... 600 pcs./reel

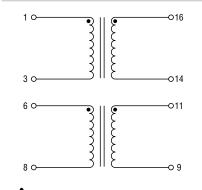
*"E" suffix before "L" in part number designates tape & reel packaging, e.g. SM75057PEL.

How To Order

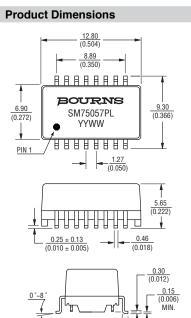
	SM75057	Ρ	Е	L
Model —				
Construction — P = Potted				
Packaging E = Tape and Reel (600) pcs./reel)			
Termination				

L = Tin only (RoHS Compliant)

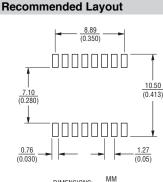
Electrical Schematic



WARNING Cancer and Reproductive Harm

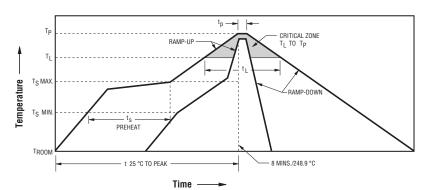


 $\frac{0.70 \pm 0.15}{(0.028 \pm 0.006)}$



DIMENSIONS: MMM (INCHES) TOLERANCES: 0.05 (0.002) UNLESS OTHERWISE NOTED

Soldering Profile



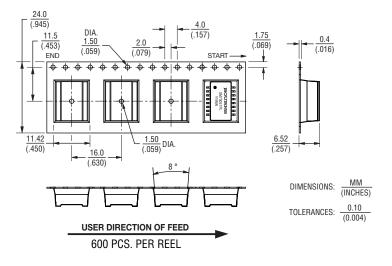
Ramp-up rate = 3 °C/sec. max. Ramp-down rate = 6 °C/sec. max. $T_L = 217 °C t_L = 60-150 sec.$ $T_p = 250 °C \pm 3 °C$ Time within 5 °C of actual Peak Temp $(t_p)2 = 20$ ~40 sec. $T_S min = 150 °C T_S max = 200 °C$ $T_S min to T_S max = 60-180 sec., 25 °C to Peak Temperature = 8 min. max.$

*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. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

SM75057PEL - T1/E1 Transformer

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Packaging Specifications



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Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116 EMEA: Tel: +36 88 520 390 • Fax: +36 88 520 211 The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700 www.bourns.com

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