

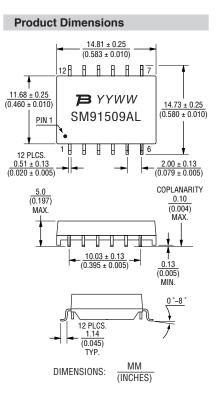
Electrical Specifications @ 25 °C

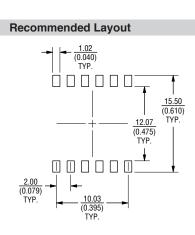
OCL (100 kHz, 0.1 V, (-40 °C ~ +125 °C) Leakage Inductance (100 kHz, 0.1 V) 0.5 μH max. DCR Cable Side..... 1.2Ω max. Chip Side..... 1.2 Ω max. Turns Ratio1:1 ±2 % Insertion Loss 4 MHz.....-0.25 dB max. Return Loss (Z out = 100Ω) 4 MHz.....-22 dB min. Cross Talk (Between each channel) 1-10 MHz.....50 dB min. 10-100 MHz Common Mode Rejection Ratio 1~200 MHz.....-30 dB min. Hi-Pot (1 mA, 60 sec.) 4300 Vdc or 3100 Vrms Design Construction Functional Insulation Working Voltage1600 Vdc Operating Temperature....-40 to +125 °C Storage Temperature-50 to +125 °C Moisture Sensitivity Level1 ESD Classification (HBM).....N/A **Electrical Schematic**

Features

- Two channels with choke
- Matched with Texas Instruments' Model BQ79606
- Operating temperature: -40 to +125 °C
- Hi-Pot: 4300 Vdc or 3100 Vrms
- Working voltage: 1600 Vdc
- RoHS compliant*

SM91509AL BMS Signal Transformer





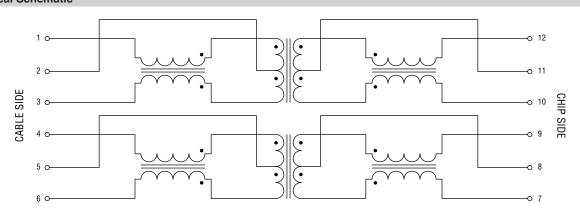
AEC-Q200 compliant

Packaging Specifications

Tape & Reel..... 400 pcs./reel

How To Order

	SM91509 A L-E
Model	
AEC-Q200 Compliant -	
Termination L = RoHS Compliant	
Packaging E = Tape and Reel (40	00 pcs. per reel)



WARNING Cancer and Reproductive Harm - <u>www.P65Warnings.ca.gov</u>

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

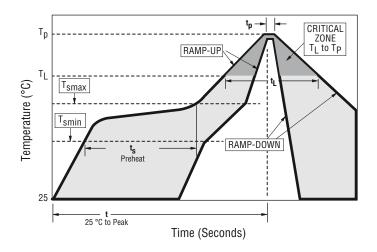
Users should verify actual device performance in their specific applications.

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SM91509AL BMS Signal Transformer

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Solder Profile



Profile Features	Pb Free Assembly	
Average Ramp-up Rate	3 °C/second max.	
Preheat		
Temperature min. (T _S min)	150 °C	
Temperature max. (T _S max)	200 °C	
Time (t _S min. to t _S max.)	60 ~ 180 s	
Liquidus Temperature: TL	217 °C	
Time above Liquidus Temperature: tL	60 ~ 150 s	
Peak Temperature: TP	245-250 °C	
Time within 5 °C of Actual Peak Temperature: tp	20 ~ 40 s	
Ramp-down Rate from Peak Temperature	6 °C/s max.	
Time 25 °C to Peak: t _{TO PEAK}	8 minutes max.	

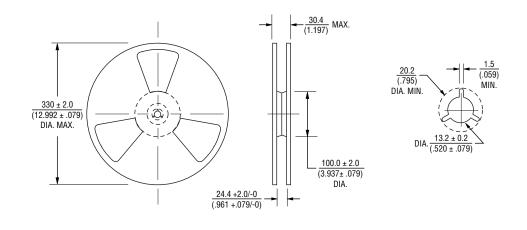
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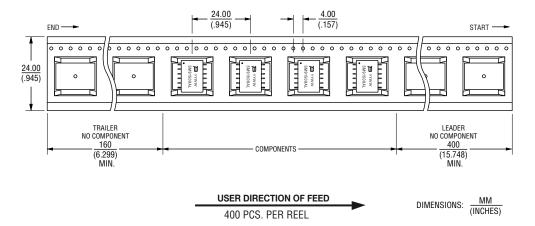
SM91509AL BMS Signal Transformer

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Packaging Specifications

Specifications and tolerances comply with EIA-481 requirements.





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Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com www.bourns.com

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