

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*

■ AEC-Q200 compliant

SM91509AL BMS Signal Transformer

Electrical Specifications @ 25 °C

OCL

(100 kHz, 0.1 V, (-40 °C ~ +125 °C)

...... 600 μ H min. Leakage Inductance (100 kHz, 0.1 V)

..... 0.5 μ H max. DCR

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

-50+20*LOG₁₀ (f/10 MHz)

Common Mode Rejection Ratio

1~200 MHz.....-30 dB min.

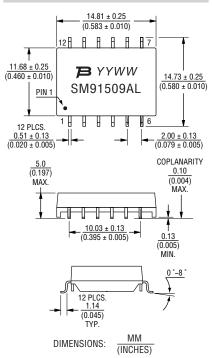
Hi-Pot (1 mA, 60 sec.)

Working Voltage1600 Vdc Operating Temperature...-40 to +125 °C

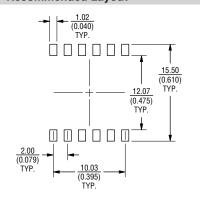
Storage Temperature......-50 to +125 °C

ESD Classification (HBM).....N/A

Product Dimensions



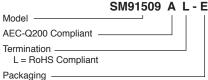
Recommended Layout



Packaging Specifications

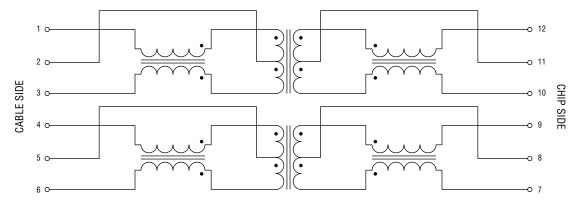
Tape & Reel...... 400 pcs./reel

How To Order



E = Tape and Reel (400 pcs. per reel)

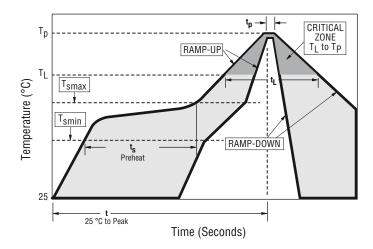
Electrical Schematic





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

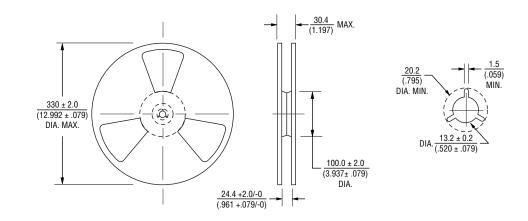
Solder Profile

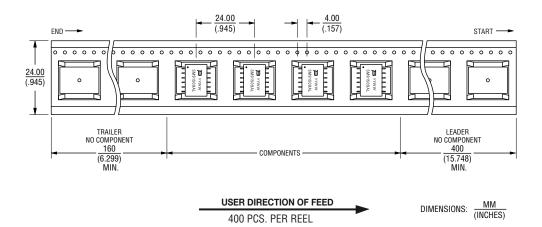


Profile Features	Pb Free Assembly
Average Ramp-up Rate	3 °C/second max.
Preheat	
Temperature min. (T _S min)	150 °C
Temperature max. (T _S max)	200 °C
Time (t _S min. to t _S max.)	60 ~ 180 s
Liquidus Temperature: TL	217 °C
Time above Liquidus Temperature: tL	60 ~ 150 s
Peak Temperature: Tp	245-250 °C
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.

Packaging Specifications

Specifications and tolerances comply with EIA-481 requirements.





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