

Features

- 100Base-Tx Ethernet
- Working voltage up to 1500 VDC
- Hi-Pot: 4000 VAC
- Design construction: Basic insulation per IEC 62368-1
- Creepage distance 8 mm minimum, pollution degree 2, material group CTI I
- Clearance distance 8 mm minimum, Overvoltage Category III, up to 4 km sea level
- RoHS compliant*

SM91078L LAN Transformer

Additional Information

Click these links for more information:











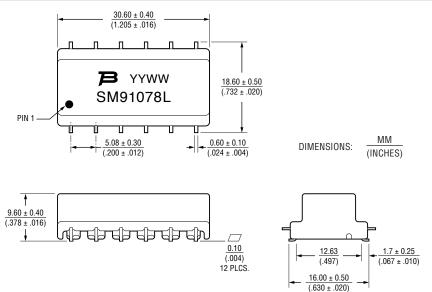
TECHNICAL LIBRARY

CONTACT

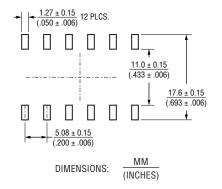
General Specifications

OCL (100 kHz / 0.1 V, 8 mA DC Bias) (-40 °C \sim +105 °C) 350 μ H min. Leakage Inductance (100 kHz/0.1 V)
DCR
Transformer Side 0.6 Ω max.
CM Choke Side 1.0 Ω max.
Turns Ratio
Insertion Loss:
1-10 MHz
10~60 MHz2.5 dB max.
60~100 MHz4.0 dB max.
Return Loss (Z out = 100Ω) 1~30 MHz:
30~45 MHz6.0 dB min.
45~60 MHz4.5 dB min.
Common Mode Rejection Ratio
1~30 MHz45 dB min.
30~100 MHz30 dB min.
Cross Talk (Between each Channel):
1 MHz:62 dB min.
5~100 MHz:40+20*LOG ₁₀
(f/30 MHz) dB min.
Hi-pot (1 mA, 60 S)4000 VAC
Working Voltageup to 1500 VDC
System Voltageup to 600 VAC
Impulse Voltage 8 kV, 1.2/5.0 μ S
Operation temperature
40 °C to +105 °C
Storage Temperature (Component)
50 °C to +125 °C
Moisture Sensitivity Level1
ESD Classification (HBM)N/A

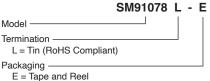
Product Dimensions



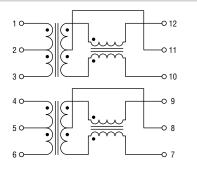
Recommended Layout



How To Order



Electric Schematic



Packaging Specification

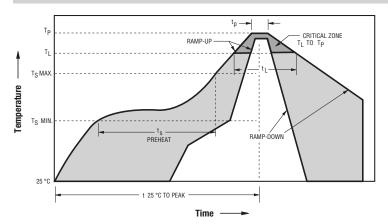
Tape & Reel..... 200 pcs. per 13-inch reel



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

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Solder Profile



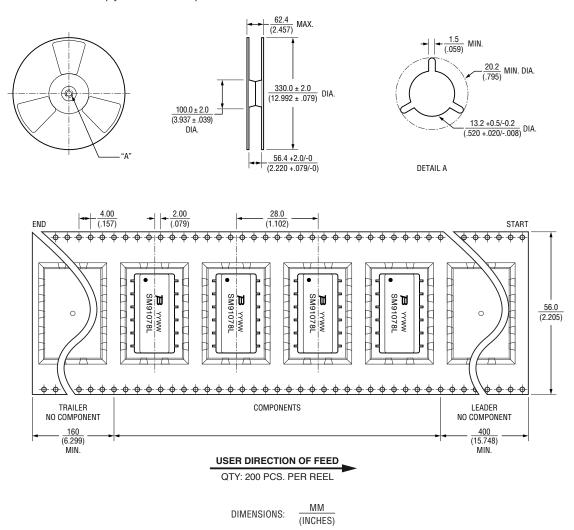
Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate	3 °C / second max.
PREHEAT: Temperature Min. (T _{smin}) Temperature Max. (T _{smax}) Time (T _{smin} to T _{smax})	150 °C 200 °C 60~180 seconds
Liquidus Temperature (T _L)	217 °C
Time Above Liquidus Temperature (t _L)	60~150 seconds
Peak Temperature (T _p)	245-250 °C
Time within 5 °C of Actual Peak Temperature (t _p)	20~40 seconds
Ramp-Down Rate from Peak Temperature	6 °C / second max
Time 25 °C to Peak Temperature (T _p)	8 minutes max.
Do Not Exceed	250 °C

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Packaging Specifications

Specifications and tolerances comply with EIA-481 requirements.



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