

Features

- Single port Gigabit Ethernet
- Working voltage: 500 V
- Hi-Pot: 4680 VDC
- Design construction: Reinforced insulation per IEC 60664-1 and IEC 62368-1 requirements
- Creepage distance 5 mm min., Clearance distance 5 mm min., pollution degree 2, material group CTI I
- RoHS compliant*

SM91602L LAN Transformer

Additional Information

Click these links for more information:











SAMPLES

CONTACT

General Specifications

OCL (100 kHz / 0.1 V, 8 mA DC Bias)
Leakage Inductance (100 kHz/0.1 V)
DCR
Transformer Side 0.90 Ω max.
CM Choke Side 1.30 Ω max.
Turns Ratio1:1±2%
Insertion Loss:
1 MHz1.0 dB max.
5~80 MHz3.0 dB max.
125 MHz5.0 dB max.
Return Loss (Z out = 100Ω)
1~30 MHz:
30~45 MHz6.0 dB min.
45~60 MHz4.5 dB min.
Cross Talk (Between each Channel):
1 MHz:58 dB min.
5~100 MHz:30+20*LOG ₁₀
(f/20 MHz) dB min.
Hi-pot (1 mA, 60 S)4680 VDC
Working Voltage up to 500 V
Operation Temperature0 °C to +85 °C
Storage Temperature (Component)
50 °C to +125 °C
Moisture Sensitivity Level1
ESD Classification (HBM)N/A

Packaging Specification

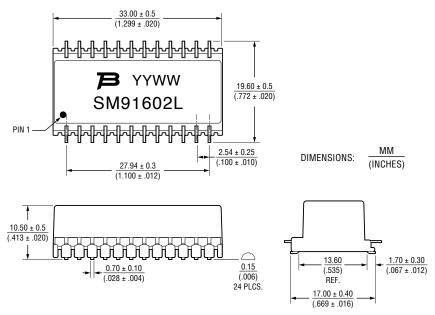
Tape & Reel..... 200 pcs. per 13-inch reel

How To Order

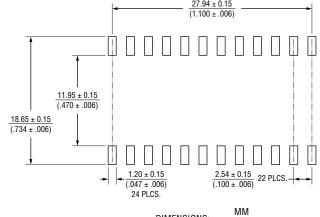
SM91602 L-E Model RoHS Compliancy Designator Packaging -E = 200 pcs. per 13-inch Reel,

2 Reels per Box

Product Dimensions



Recommended Layout

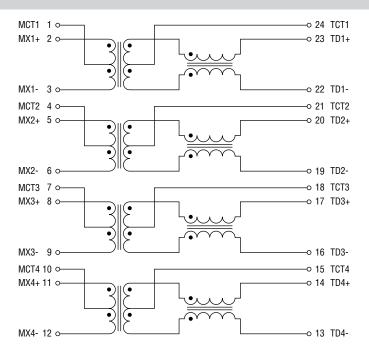


DIMENSIONS: (INCHES)

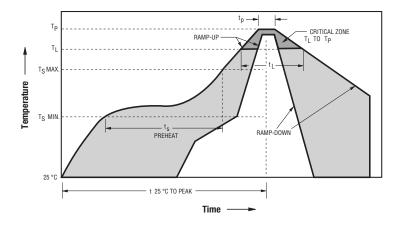


WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Electrical Schematic



Reflow Solder Profile



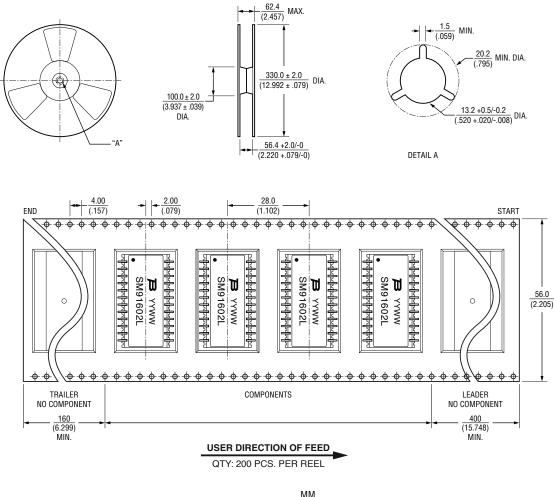
Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate	3 °C / second max.
PREHEAT: Temperature Min. (T _{smin}) Temperature Max. (T _{smax}) Time (T _{smin} to T _{smax})	150 °C 200 °C 60~180 seconds
Liquidus Temperature (T _L)	217 °C
Time Above Liquidus Temperature (t _L)	60~150 seconds
Peak Temperature (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

SM91602L LAN Transformer

FOURNS®

Packaging Specifications

Specifications and tolerances comply with EIA-481 requirements.



DIMENSIONS: $\frac{MM}{(INCHES)}$

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