Features
- IEEE 802.3bt Type 3 4PPoE Ethernet compatible
- Dual-port
- PoE++ capable
- RoHS compliant*

SM13143EL - 10/100/1000 Base-T Transformer

Electrical Specifications @ 25 °C
Inductance (@ 100 kHz, 0.1 V, 8 mA) ........................................ 350 µH min.
Leakage Inductance (100 kHz, 0.1 V) ........................................ 0.5 µH max.
DCR ........................................ 1400 mΩ max.
Turns Ratio ......... (1CT:1CT) ±5 %
Insertion Loss
1-100 MHz.............................. -1.1 dB max.
Return Loss
1-30 MHz.............................. -18 dB min.
40 MHz.............................. -14.4 dB min.
50 MHz.............................. -12.1 dB min.
60-80 MHz.............................. -12 dB min.
100 MHz.............................. -10 dB min.
Cross Talk
1-100 MHz.............................. -30 dB min.
Common Mode Rejection
1-100 MHz.............................. -30 dB min.
PoE++.............................................. 60W
Each channel supports
700 mA DC balance current
Full channels support
1400 mA DC balance current
Hi-Pot................................. 1500 Vac, 1 mA, 60 s
Operating Temperature...... -40 °C to +70 °C
Storage Temperature...... -40 °C to +85 °C

Packaging Specifications
Tape & Reel .......................... 350 pcs./reel

Recommended Layout

![Electrical Schematic Diagram]

How To Order
SM13143 E L
Model
Packaging
E = Tape and Reel
Termination
L = Tin finish (RoHS Compliant)

Additional Information
Click these links for more information:
PRODUCT TECHNICAL LIBRARY INVENTORY SAMPLES CONTACT

Packaging Details

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

Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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Packaging Specifications

330 DIA. (12.999)

20.2 ± 0.1 (.795 ± .004)

44 ± 0.3 (1.732 ± .012)

1.75 ± 0.1 (.069 ± .004)

2.0 (0.79)

4 ± 0.1 (.157 ± .004)

20 ± 0.1 (.79 ± .004)

1.5 (0.06)

25.5 ± 0.1 (1.00 ± .004)

28.1 ± 0.1 (1.106 ± .004)

8.7 ± 0.1 (.333 ± .004)

5° ± 0°

DIMENSIONS:

USER DIRECTION OF FEED

QUANTITY: 350 PCS. PER REEL

BOURNS®

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