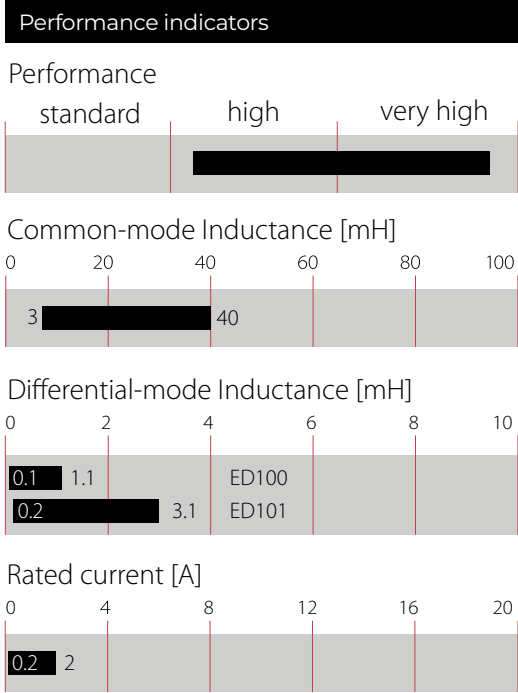
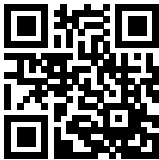
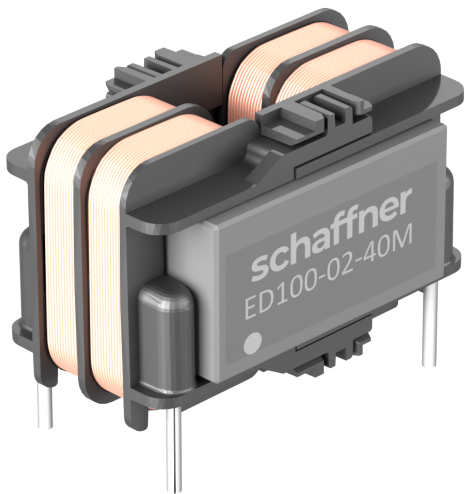


Current-compensated choke series for lighting applications



Approvals & Compliances

RoHS

Lighting LED drivers need to be high in efficiency, low in cost and compliant to EMC regulations. The ED100 / ED101 series increases the efficiency of a LED driver circuit by reducing the need for X-capacitors. Thus, the power factor rises, and less unwanted reactive power is generated. The inductor is a combination of a strong common-mode inductance with a significant differential-mode inductance. It offers two filtering elements in one component. This helps the circuit designer to reduce the number of elements on the PCB, to reduce space requirement as well as lowering costs. Combined with the high MTBF value of the ED100 / ED101 series, a circuit design with reduced number of components profits for its overall reliability and lifetime.

Features and Benefits

- Increases power factor
- Combination of common- and differential-mode inductances
- Rated currents up to 2 A
- Compact and light-weight
- Small PCB footprint

Family Technical Specifications

Creepage and clearance distances	Creepage > 3 mm / Clearance > 2.5 mm between windings
Rated inductance	3 to 40 mH common-mode
Rated currents	0.2 to 2 A @ 65°C
Operating voltage	300 VAC, 50/60 Hz
Overvoltage category	II acc. IEC 60664-1
Pollution degree	PD2 acc. IEC 60664-1
Stray inductance	0.1 - 3.1 mH
Inductance reduction (DC bias with IN)	Less than 10% at rated current
Temperature range (operation and storage)	-40°C to 125°C
Climatic category	40/125/56 acc. IEC 60068-1
Cooling	AN - natural convection
Altitude	Derating above 2,000 m
Protection category	IP 00
Flammability corresponding to	UL 94 V-0
Vibration and shock	3M4 acc. IEC 60721-3-3
Design corresponding to	IEC 60938-1/-2
MTBF (Mil-HB-217F)	>13,000,000 h @ 65°C/250 V
Operating frequency	DC to 60 Hz

Typical Applications

- Mains operated LED drivers
- Electronic ballasts
- Input filters for switch mode power supplies

Articles

	Article	Rated Current @ambient (A)	Inductance L1	Input/Output connections (Nm)	Dist. stock	Read More
				Input terminal		
	ED100-0.2-40M	0.2	40	02 - PCB Pin		
	ED100-0.3-27M	0.3	27	02 - PCB Pin		
	ED100-0.4-20M	0.4	20	02 - PCB Pin		
	ED100-0.5-15M	0.5	15	02 - PCB Pin		
	ED100-0.75-12M	0.75	12	02 - PCB Pin		
	ED100-1.25-7M0	1.25	7	02 - PCB Pin		
	ED100-1.5-5M0	1.5	5	02 - PCB Pin		
	ED100-1-9M0	1	9	02 - PCB Pin		
	ED100-2-3M0	2	3	02 - PCB Pin		
	ED101-0.2-40M	0.2	40	02 - PCB Pin		
	ED101-0.3-27M	0.3	27	02 - PCB Pin		
	ED101-0.4-20M	0.4	20	02 - PCB Pin		
	ED101-0.5-15M	0.5	15	02 - PCB Pin		
	ED101-0.75-12M	0.75	12	02 - PCB Pin		
	ED101-1.25-7M0	1.25	7	02 - PCB Pin		
	ED101-1.5-5M0	1.5	5	02 - PCB Pin		
	ED101-1-9M0	1	9	02 - PCB Pin		
	ED101-2-3M0	2	3	02 - PCB Pin		

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