

ED100-0.5-15M

SAP Code: 822536



- PCB Common Mode Choke
- 0.5 A PCB Common Mode Choke with 15 mH Inductance
- General

Buy article now



Family Technical Specifications

MTBF> 13,000,000 hours acc. MIL-HDBK-217Vibration and shock3M4 acc. IEC 60721-3-3Maximum continuous operating voltage300 VAC, 50/60 HzAltitudeDerating above 2,000 mClimatic class40/125/56 acc. IEC 60068-1Creepage and clearance distancesCreepage > 3 mm / Clearance > 2.5 mm between windingsOvervoltage categoryII acc. IEC 60664-1Design corresponding toIEC 60938-1/-2Protection categoryIP 00Pollution degreePD2 acc. IEC 60664-1Rated currents0.5Inductance reduction (DC bias with IN)Less than 10% at rated currentCoolingAN - natural convectionRated inductance3 to 40 mH common-modeStray inductance0.1 - 3.1 mHFlammability corresponding toUL 94 V-0Operating frequencyDC to 60 HzTemperature range (operation and storage)-40°C to 125°C		
Maximum continuous operating voltage300 VAC, 50/60 HzAltitudeDerating above 2,000 mClimatic class40/125/56 acc. IEC 60068-1Creepage and clearance distancesCreepage > 3 mm / Clearance > 2.5 mm between windingsOvervoltage categoryII acc. IEC 60664-1Design corresponding toIEC 60938-1/-2Protection categoryIP 00Pollution degreePD2 acc. IEC 60664-1Rated currents0.5Inductance reduction (DC bias with IN)Less than 10% at rated currentCoolingAN - natural convectionRated inductance3 to 40 mH common-modeStray inductance0.1 - 3.1 mHFlammability corresponding toUL 94 V-0Operating frequencyDC to 60 Hz	MTBF	> 13,000,000 hours acc. MIL-HDBK-217
Altitude Climatic class 40/125/56 acc. IEC 60068-1 Creepage and clearance distances Creepage > 3 mm / Clearance > 2.5 mm between windings Overvoltage category Il acc. IEC 60664-1 Design corresponding to IEC 60938-1/-2 Protection category IP 00 Pollution degree PD2 acc. IEC 60664-1 Rated currents Inductance reduction (DC bias with IN) Cooling AN - natural convection Rated inductance Stray inductance U.1 - 3.1 mH Flammability corresponding to UL 94 V-0 Operating frequency DC to 60 Hz	Vibration and shock	3M4 acc. IEC 60721-3-3
Climatic class Creepage and clearance distances Creepage > 3 mm / Clearance > 2.5 mm between windings Overvoltage category Il acc. IEC 60664-1 Design corresponding to IEC 60938-1/-2 Protection category IP 00 Pollution degree PD2 acc. IEC 60664-1 Rated currents 0.5 Inductance reduction (DC bias with IN) Less than 10% at rated current Cooling Rated inductance 3 to 40 mH common-mode Stray inductance Flammability corresponding to UL 94 V-0 Operating frequency DC to 60 Hz	Maximum continuous operating voltage	300 VAC, 50/60 Hz
Creepage and clearance distances Creepage > 3 mm / Clearance > 2.5 mm between windings Overvoltage category Il acc. IEC 60664-1 IEC 60938-1/-2 Protection category IP 00 Pollution degree PD2 acc. IEC 60664-1 Rated currents 0.5 Inductance reduction (DC bias with IN) Less than 10% at rated current Cooling Rated inductance 3 to 40 mH common-mode Stray inductance Flammability corresponding to UL 94 V-0 Operating frequency Creepage > 3 mm / Clearance > 2.5 mm between windings Id acc. IEC 60664-1 IEC 60938-1/-2 IP 00 PD2 acc. IEC 60664-1 AN - natural convection 3 to 40 mH common-mode UL 94 V-0 Details frequency DC to 60 Hz	Altitude	Derating above 2,000 m
windings Overvoltage category Design corresponding to IEC 60938-1/-2 Protection category IP 00 Pollution degree PD2 acc. IEC 60664-1 Rated currents 0.5 Inductance reduction (DC bias with IN) Cooling Rated inductance 3 to 40 mH common-mode Stray inductance Flammability corresponding to Operating frequency windings II acc. IEC 60664-1 IEC 60938-1/-2 PD2 acc. IEC 60664-1 AN - natural convection AN - natural convection UL 94 V-0 DC to 60 Hz	Climatic class	40/125/56 acc. IEC 60068-1
Design corresponding to Protection category Pollution degree PD2 acc. IEC 60664-1 Rated currents O.5 Inductance reduction (DC bias with IN) Less than 10% at rated current Cooling AN - natural convection Rated inductance 3 to 40 mH common-mode Stray inductance O.1 - 3.1 mH Flammability corresponding to UL 94 V-0 Operating frequency DC to 60 Hz	Creepage and clearance distances	, 3
Protection category Pollution degree PD2 acc. IEC 60664-1 Rated currents Inductance reduction (DC bias with IN) Cooling Rated inductance Stray inductance Flammability corresponding to Operating frequency IP 00 PD2 acc. IEC 60664-1 0.5 Less than 10% at rated current AN - natural convection 3 to 40 mH common-mode UL 94 V-0 DC to 60 Hz	Overvoltage category	II acc. IEC 60664-1
Pollution degree PD2 acc. IEC 60664-1 Rated currents 0.5 Inductance reduction (DC bias with IN) Less than 10% at rated current Cooling AN - natural convection Rated inductance 3 to 40 mH common-mode Stray inductance 0.1 - 3.1 mH Flammability corresponding to UL 94 V-0 Operating frequency DC to 60 Hz	Design corresponding to	IEC 60938-1/-2
Rated currents Inductance reduction (DC bias with IN) Less than 10% at rated current AN - natural convection Rated inductance 3 to 40 mH common-mode Stray inductance O.1 - 3.1 mH Flammability corresponding to UL 94 V-0 Operating frequency DC to 60 Hz	Protection category	IP 00
Inductance reduction (DC bias with IN) Cooling AN - natural convection Rated inductance Stray inductance Flammability corresponding to Operating frequency DC to 60 Hz	Pollution degree	PD2 acc. IEC 60664-1
Cooling Rated inductance Stray inductance Flammability corresponding to Operating frequency AN - natural convection 3 to 40 mH common-mode 0.1 - 3.1 mH UL 94 V-0 DC to 60 Hz	Rated currents	0.5
Rated inductance 3 to 40 mH common-mode Stray inductance 0.1 - 3.1 mH Flammability corresponding to UL 94 V-0 Operating frequency DC to 60 Hz	Inductance reduction (DC bias with IN)	Less than 10% at rated current
Stray inductance O.1 - 3.1 mH Flammability corresponding to Operating frequency DC to 60 Hz	Cooling	AN - natural convection
Flammability corresponding to Operating frequency UL 94 V-0 DC to 60 Hz	Rated inductance	3 to 40 mH common-mode
Operating frequency DC to 60 Hz	Stray inductance	0.1 - 3.1 mH
operating inequality	Flammability corresponding to	UL 94 V-0
Temperature range (operation and storage) -40°C to 125°C	Operating frequency	DC to 60 Hz
	Temperature range (operation and storage)	-40℃ to 125℃

Approvals & Compliances

RoHS

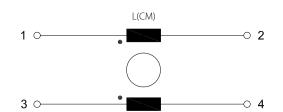
Features and Benefits

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

Typical Applications

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

Typical electrical schematic



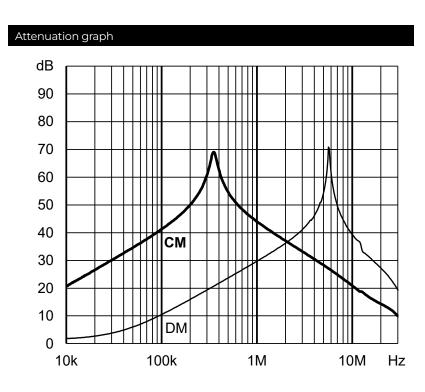
General Specification

Voltage AC	300 (Volt)
Nominal Frequency	50
Rated Current @ambient	0.5
Ambient temperature [°C]	65

Electric Specification

Attenuation Specification

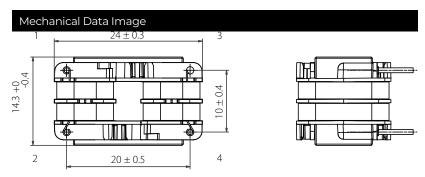


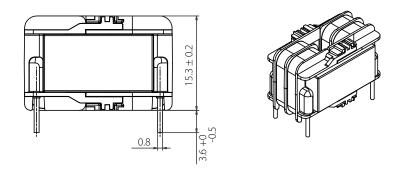


Mechanic Specification

Length [mm]	24
Width [mm]	14.3
Height [mm]	15.3
NetWeight [g]	10 (Gram)
ø Pin [mm]	0.8

Schaffner schemes





Dimensions

H [mm]	15.3
L [mm]	24
W [mm]	14.3