Surface mount Power Inductors

Non Shielded Inductor / Wire wound Inductors

Coilmaster Electronics Co., Ltd.
Headquarters: 9F-3 No.398, Huan Bei Road, Chung Li City, Taoyuan 320, Taiwan, ROC
TEL: 886-3-4228279; FAX: 886-3-4228734

http://www.coilmaster.com.tw
info@coilmaster.com.tw
Product Index

Non Magnetic Shielded Power Inductors

Low Profile / High current Inductor (SDR)----------------------------------------------- 01
SMD High Saturation Inductors / Tiny Size (SDO1608)--------------------------------------- 02
SMD Low-DCR Inductors (SDO)-------------------------------------------------------- 03
  - SDO3316/3340 Low DCR Power Inductors ------------------------------------------ 03
  - SDO5022/5040 Low DCR Power Inductors ------------------------------------------ 04

Low DCR, Non Magnetic Shielded Inductors (SDH1813)--------------------------------------05
Surface Mount Power Inductors (SDH3316/5022/5040)--------------------------------------06
SMD Non Magnetic Inductors (SDB)------------------------------------------------------07
Wirewound Inductors

Un-shielded Inductors

Surface Mount Power Inductors – SDR series

Coilmaster produce wide range of SMD wirewound inductors. In contemporary society, more and more customers require better characteristic but smaller size. Coilmaster’s latest miniature (SDR series) wirewound power inductor series offers improved performance in the same compact, low-profile case size.

SDR series were designed for different applications features low DC resistance and increased allowable current. Especially in DC-DC converters and power supplies, the performance of the power components directly affects the overall efficiency of the supply, so it is of paramount importance.

SDR series conform to the RoHS (Reach) directive and Lead(Halogen) free. Customer design is acceptable for us. Coilmaster will produce the product with base on the characteristic even it is outside our specifications.

1) Inductor Overview :
   1) SDR21:(A:2.2 x B:2.0 x D:1.1 mm); 0.50μH ~ 220.00μH ; IDC 0.10A ~ 2.40A.
   2) SDR32:(A:3.8 x B:3.3 x D 2.5 mm); 1.00μH ~ 82.00μH ; IDC 0.28A ~ 2.08A.
   3) SDR43:(A:4.8 x B:4.3 x D 3.5 mm); 1.00μH ~ 68.00μH ; IDC 0.46A ~ 3.80A.
   4) SDR54:(A:6.1 x B:5.5 x D 4.8 mm); 10.0μH ~ 220.00μH ; IDC 0.35A ~ 1.44A.
   4) SDR75:(A:8.1 x B:7.3 x D 5.5 mm); 10.0μH ~ 470.00μH ; IDC 0.34A ~ 2.30A.
   4) SDR105:(A:10.3 x B:9.3 x D 5.8 mm); 10.0μH ~ 820.00μH; IDC 0.24A ~ 2.60A.

2) Features :
   - Tiny size and thin.
   - Open magnetic construction.
   - The electrode with ferrite core directly, good for high mounting density.

3) Applications :
   - Smart phone, Tablet, Portable devices
   - Power line filtering.
   - DC to DC converters.
Power Inductors

Unshielded Inductors

Wire-wound Inductors – SDO1608 series

Coilmaster – SDO series - SMD unshielded Power Inductors provide wide range inductance. With drum core design utilizes board space and general use by Coilmaster’s automatic wire wound technology and ferrite core.

The SDO series - open magnetic circuit construction are particularly suitable for cost-critical mass applications. This saving power inductors are ideal for applications such as DC/DC convertors, Tablet, EMC sector.

The SDO series – RoHS (Reach) compliant. Coilmaster will produce the product with base on the request characteristic even it is outside our specifications.

1) Features :
   - Low Profile only 2.92mm.
   - Low DCR, High Current SMD Power Inductor.
   - For Large Current Use: 0.1 ~ 2.9 A.
   - High Frequency

2) Applications :
   - Thin type on-board power supply module for exchanger..
   - Smart phone, Tablet, Notebook, Laptop Computer, Graphic Card.
   - DC-DC converter .
   - Inductor for general purpose use.
Choose Coilmaster into your Design

Un-Shielded Power Inductor

Wirewound Power Inductors

Surface Mount Inductors – SDO3316/3340 series

SDO series - unshielded Power Inductors
Provide with wide range inductance, drum core design and provide several size for customer in order to satisfy customer’s requirement.

SDO3316/3340 series are wirewound power inductors (open magnetic circuit construction) are suitable for different applications such as Personal computer, smart phone, tablet, DC/DC converter. We provide competitive price and very short lead time.

SDO3316/3340 series is designed to reduced DC resistance and increased allowable current. The performance of the power components always affects the overall efficiency of the supply, so it is crucial.

Coilmaster SMD unshielded inductors conforms to the RoHS(Reach) directive and Lead(Halogen) free. Customer design is available for us.

1) Features :
- Open magnetic circuit construction.
- Different high for different applications.
- High Current, Low DCR.

2) Applications :
- Tablet, Smart phone, Notebook, Personal Computers
- Other Electronic Devices.
- DC-DC converter.
UnShielded Inductor

Surface Mount Power Inductors

Wirewound Power Inductors – SDO5022/5040 series

SDO 5022/5040 series - unshielded Power Inductors Provide with wide range inductance, drum core design and provide several size for customer in order to satisfy customer’s requirement.

SDO5022/5040 series are wirewound power inductors (open magnetic circuit construction) are suitable for different applications such as Personal computer, smart phone, tablet, DC/DC converter. We provide competitive price and very short lead time.

SDO5022/5040 series is designed to reduced DC resistance and increased allowable current. The performance of the power components always affects the overall efficiency of the supply, so it is crucial.

Coilmaster SMD unshielded inductors conforms to the RoHS(Reach) directive and Lead(Halogen) free. Customer design is available for us.

1) Inductor Overview :
   - SDO5022: (A:15.84 x B:15.24 x D:7.11 mm) ; 1.00μH ~ 1000.0μH ; IDC 1.0A ~ 20.0A.
   - SDO5040: (A:15.84 x B:15.24 x D:11.43 mm); 15.00μH ~ 100.0μH ; IDC5.60A ~ 13.80A.
   - High Current, Low DCR.

2) Features :
   - Open magnetic circuit construction.
   - High Current, Low DCR.

3) Applications :
   - Tablet, Smart phone, Notebook, Personal Computers
   - Other Electronic Devices.
   - DC-DC converter.
Wire-wound Power Inductors

Non Magnetic Shielded Inductors

Surface Mount Power Inductors – SDH1813 Series

Coilmaster Power Inductors use cutting edge wire wound technology enabling up to 33.4A high current. SMD unshielded series utilize wire wound technology with non shielded construction provides high rated current, low DCR products.

SDH1813 series are wirewound power inductors (non magnetic shielded inductor) are suitable for different applications such as Personal computer, smart phone, tablet, DC/DC converter. We provide competitive price and very short lead time.

Developed to increase efficiency, Coilmaster is improving our process to produce lower DC resistance, save valuable board space and several size are available for unshielded power inductor, wirewound inductor, non magnetic shielded inductor. Operate temperature range from -40°C to +125°C. Coilmaster Electronics offers a variety of coils and inductors, including choke coils, high current inductors…etc.

1) Features :
   - 1. Non Magnetic Shielded Inductor.
   - 2. Large Current and Low DCR.
   - 3. Tiny Size and Thin.

2) Applications :
   - 2. Variety of DC-DC converter.
Non Shielded Inductors

Surface Mount Power Inductors

Open Magnetic Construction Inductor – SDH3316/5022/5040

SDH series - unshielded Power Inductors
Provide with wide range inductance, drum core design
and provide several size for customer in order to satisfy
customer’s requirement.

SDH3316/5022/5040 series are wirewound power
inductors (non magnetic shielded inductor) are suitable
for different applications such as Personal computer,
smart phone, tablet, DC/DC converter. We provide
competitive price and very short lead time.

1) Inductor Overview:

There are three size are available. If you can’t find the suitable size, please feel free to contact us.

1) SDH3316 : (A:13.5 B:9.91 D:6.35 mm); 0.12μH ~ 470.00μH; IDC 0.50A ~ 28.0A.
2) SDH5022 : (A: 22.35 B:16.26 D:8 mm); 0.78μH ~ 1000.00μH; IDC 1.0A ~ 30.0A.
3) SDH5040 : (A:22.35 B:16.26 D:12mm); 2.80μH ~ 12.00μH ; IDC 15.9A ~ 33.4A.

2) Features:
   - 1. Non Magnetic Shielded Inductor.
   - 2. Large Current and Low DCR.
   - 3. Tiny Size and Thin.
Surface Mount Inductors

High Current Inductors

Non Magnetic Shielded Inductors – SDB Series

Coilmaster produce wide range of SMD wirewound inductors. In contemporary society, more and more customers require better characteristic but smaller size. Coilmaster’s latest miniature (SDB series) wirewound power inductor series offers improved performance in the same compact, low-profile case size.

SDB series were designed for different applications features low DC resistance and increased allowable current. Especially in DC-DC converters and power supplies, the performance of the power components directly affects the overall efficiency of the supply, so it is of paramount importance.

SDR series conform to the RoHS (Reach) directive and Lead(Halogen) free. Customer design is acceptable for us. Coilmaster will produce the product with base on the characteristic even it is outside our specifications.

1) Inductor Overview :
   1) SDB0603:(A:6.3 x B:6.3 x D:3.2 mm); 1.20μH ~ 1000.00μH ; IDC 0.14A ~ 2.80A.
   2) SDB0703:(A:7.3 x B:7.3 x D 3.3 mm); 1.20μH ~ 1000.00μH ; IDC 0.16A ~ 3.00A.
   3) SDB0705:(A:7.3 x B:7.3 x D 4.9 mm); 1.00μH ~ 1000.00μH ; IDC 0.18A ~ 3.50A.
   4) SDB1003:(A:10.3 x B:10.3 x D 3.3 mm); 1.80μH ~ 1000.00μH ; IDC 0.24A ~ 4.00A.
   4) SDB1004:(A:10.3 x B:10.3 x D 4.9 mm); 1.80μH ~ 1000.00μH ; IDC 0.38A ~ 5.50A.
   4) SDB1204:(A:13.0 x B:13.0 x D 5.1 mm); 2.50μH ~ 1000.00μH ; IDC 0.47A ~ 8.00A.

2) Features :
   - 1. Non Magnetic shielded construction.
   - 2. High mounting density.
   - 3. Compact and thin.

3) Applications :
   - 1. Computer devices, Video game console, Notebook, Tablet, Smart phone.
   - 2. Portable communication equipment.
For more information, Please visit our website