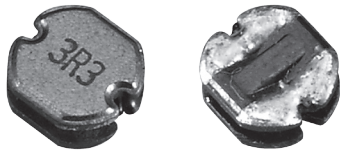




SMD Unshielded Power Inductor

SDR Series



Features

- Open magnetically circuit construction
- Excellent solderability and high heat resistance
- Excellent terminal strength construction

Application

- VTR, OA equipment, LCD television set, Notebook, portable communication equipments, DC/DC converters, etc

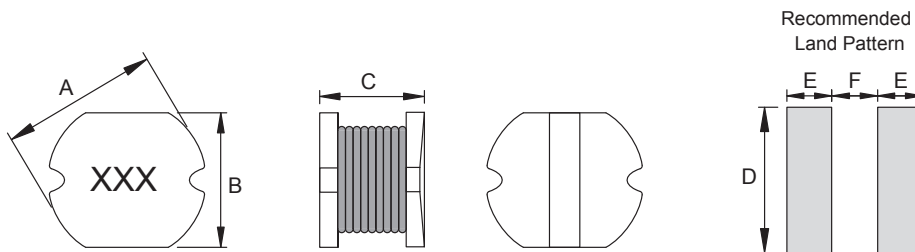
Part Numbering

SDR 3020 B - 1R0 M - □

① ② ③ ④ ⑤ ⑥

- ① Product Group
- ② Dimension Code
- ③ Type Code
- ④ Inductance Code: R means decimal point
Ex: 1R0→1.0μH
- ⑤ Inductance Tolerance K=±10%, M=±20%
- ⑥ Control Code

Shapes and Dimension



Unit: mm

Type	A	B	C	D	E	F
SDR3020	3.50±0.30	3.00±0.30	2.10±0.30	3.30 (Typ.)	1.30 (Typ.)	1.10 (Typ.)
SDR4532	4.50±0.30	4.00±0.30	3.20±0.30	4.50 (Typ.)	1.75 (Typ.)	1.50 (Typ.)
SDR5832	5.80±0.30	5.20±0.30	3.00±0.30	5.50 (Typ.)	2.15 (Typ.)	1.70 (Typ.)
SDR5845	5.80±0.30	5.20±0.30	4.50±0.30	5.50 (Typ.)	2.15 (Typ.)	1.70 (Typ.)
SDR7835	7.80±0.30	7.00±0.30	3.50±0.30	7.50 (Typ.)	3.00 (Typ.)	2.00 (Typ.)
SDR7850	7.80±0.30	7.00±0.30	5.00±0.30	7.50 (Typ.)	3.00 (Typ.)	2.00 (Typ.)

General Technical Data

Operating Temperature Range	-40°C~+125°C
Storage Temperature	40°C Max. , 70%RHMax.

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SMD Unshielded Power Inductor

SDR Series

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Max.
SDR3020B Series				
SDR3020B-1R0M-□	1.00μH±20%	7.96MHz	0.04Ω	1.50A
SDR3020B-1R4M-□	1.40μH±20%	7.96MHz	0.05Ω	1.50A
SDR3020B-1R8M-□	1.80μH±20%	7.96MHz	0.06Ω	0.80A
SDR3020B-2R2M-□	2.20μH±20%	7.96MHz	0.08Ω	0.75A
SDR3020B-2R7M-□	2.70μH±20%	7.96MHz	0.10Ω	0.75A
SDR3020B-3R3M-□	3.30μH±20%	7.96MHz	0.15Ω	0.60A
SDR3020B-3R9M-□	3.90μH±20%	7.96MHz	0.20Ω	0.50A
SDR3020B-4R7M-□	4.70μH±20%	7.96MHz	0.20Ω	0.50A
SDR3020B-5R6M-□	5.60μH±20%	7.96MHz	0.23Ω	0.45A
SDR3020B-6R8M-□	6.80μH±20%	7.96MHz	0.25Ω	0.40A
SDR3020B-8R2M-□	8.20μH±20%	7.96MHz	0.30Ω	0.40A
SDR3020B-100M-□	10.00μH±20%	2.52MHz	0.35Ω	0.35A
SDR3020B-120M-□	12.00μH±20%	2.52MHz	0.40Ω	0.35A
SDR3020B-150M-□	15.00μH±20%	2.52MHz	0.50Ω	0.30A
SDR3020B-180M-□	18.00μH±20%	2.52MHz	0.55Ω	0.30A
SDR3020B-220M-□	22.00μH±20%	2.52MHz	0.60Ω	0.30A
SDR3020B-270M-□	27.00μH±20%	2.52MHz	0.70Ω	0.30A
SDR3020B-330M-□	33.00μH±20%	2.52MHz	1.00Ω	0.25A
SDR3020B-390M-□	39.00μH±20%	2.52MHz	1.20Ω	0.25A
SDR3020B-470M-□	47.00μH±20%	2.52MHz	1.50Ω	0.20A
SDR3020B-560M-□	56.00μH±20%	2.52MHz	1.80Ω	0.20A
SDR3020B-680M-□	68.00μH±20%	2.52MHz	2.00Ω	0.18A
SDR3020B-820M-□	82.00μH±20%	2.52MHz	2.50Ω	0.16A
SDR3020B-101M-□	100.00μH±20%	1.00KHz	3.00Ω	0.15A
SDR3020B-121M-□	120.00μH±20%	1.00KHz	3.50Ω	0.14A
SDR3020B-151M-□	150.00μH±20%	1.00KHz	4.00Ω	0.13A
SDR3020B-181M-□	180.00μH±20%	1.00KHz	5.00Ω	0.12A
SDR3020B-221M-□	220.00μH±20%	1.00KHz	5.50Ω	0.10A
SDR3020B-271M-□	270.00μH±20%	1.00KHz	6.00Ω	0.10A
SDR3020B-331M-□	330.00μH±20%	1.00KHz	7.00Ω	0.10A
SDR3020B-391M-□	390.00μH±20%	1.00KHz	8.00Ω	0.10A
SDR3020B-471M-□	470.00μH±20%	1.00KHz	12.00Ω	0.09A

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SMD Unshielded Power Inductor

SDR Series

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Max.
SDR4532B Series				
SDR4532B-1R0M-□	1.00μH±20%	7.96MHz	0.03Ω	4.00A
SDR4532B-1R4M-□	1.40μH±20%	7.96MHz	0.04Ω	3.50A
SDR4532B-1R8M-□	1.80μH±20%	7.96MHz	0.05Ω	3.00A
SDR4532B-2R2M-□	2.20μH±20%	7.96MHz	0.06Ω	2.60A
SDR4532B-2R7M-□	2.70μH±20%	7.96MHz	0.06Ω	2.20A
SDR4532B-3R3M-□	3.30μH±20%	7.96MHz	0.07Ω	2.00A
SDR4532B-3R9M-□	3.90μH±20%	7.96MHz	0.07Ω	2.00A
SDR4532B-4R7M-□	4.70μH±20%	7.96MHz	0.08Ω	1.90A
SDR4532B-5R6M-□	5.60μH±20%	7.96MHz	0.12Ω	1.80A
SDR4532B-6R8M-□	6.80μH±20%	7.96MHz	0.14Ω	1.60A
SDR4532B-8R2M-□	8.20μH±20%	7.96MHz	0.15Ω	1.40A
SDR4532B-100M-□	10.00μH±20%	2.52MHz	0.19Ω	1.10A
SDR4532B-120M-□	12.00μH±20%	2.52MHz	0.21Ω	1.10A
SDR4532B-150M-□	15.00μH±20%	2.52MHz	0.25Ω	1.00A
SDR4532B-180M-□	18.00μH±20%	2.52MHz	0.30Ω	1.00A
SDR4532B-220M-□	22.00μH±20%	2.52MHz	0.35Ω	1.00A
SDR4532B-270M-□	27.00μH±20%	2.52MHz	0.45Ω	0.75A
SDR4532B-330M-□	33.00μH±20%	2.52MHz	0.60Ω	0.70A
SDR4532B-390M-□	39.00μH±20%	2.52MHz	0.70Ω	0.65A
SDR4532B-470M-□	47.00μH±20%	2.52MHz	0.80Ω	0.60A
SDR4532B-560M-□	56.00μH±20%	2.52MHz	0.85Ω	0.55A
SDR4532B-680M-□	68.00μH±20%	2.52MHz	1.00Ω	0.50A
SDR4532B-820M-□	82.00μH±20%	2.52MHz	1.10Ω	0.46A
SDR4532B-101M-□	100.00μH±20%	1.00KHz	1.20Ω	0.22A
SDR4532B-121M-□	120.00μH±20%	1.00KHz	1.60Ω	0.20A
SDR4532B-151M-□	150.00μH±20%	1.00KHz	2.00Ω	0.20A
SDR4532B-181M-□	180.00μH±20%	1.00KHz	3.00Ω	0.20A
SDR4532B-221M-□	220.00μH±20%	1.00KHz	3.00Ω	0.20A
SDR4532B-271M-□	270.00μH±20%	1.00KHz	4.00Ω	0.16A
SDR4532B-331M-□	330.00μH±20%	1.00KHz	4.00Ω	0.14A
SDR4532B-391M-□	390.00μH±20%	1.00KHz	5.00Ω	0.12A
SDR4532B-471M-□	470.00μH±20%	1.00KHz	6.00Ω	0.12A
SDR4532B-561M-□	560.00μH±20%	1.00KHz	7.00Ω	0.10A

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Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Max.
SDR5832B Series				
SDR5832B-1R5M-□	1.50μH±20%	100KHz	0.0370Ω	4.10A
SDR5832B-1R8M-□	1.80μH±20%	7.96MHz	0.0500Ω	2.80A
SDR5832B-4R7M-□	4.70μH±20%	7.96MHz	0.1300Ω	1.30A
SDR5832B-6R8M-□	6.80μH±20%	7.96MHz	0.0712Ω	1.87A
SDR5832B-8R2M-□	8.20μH±20%	7.96MHz	0.1000Ω	2.00A
SDR5832B-100M-□	10.00μH±20%	2.52MHz	0.2000Ω	1.90A
SDR5832B-330M-□	33.00μH±20%	2.52MHz	0.4500Ω	1.40A

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SMD Unshielded Power Inductor

SDR Series

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Max.
SDR5845B Series				
SDR5845B-1R0M-□	1.00μH±20%	7.96MHz	0.018Ω	3.50A
SDR5845B-1R4M-□	1.40μH±20%	7.96MHz	0.020Ω	3.50A
SDR5845B-1R8M-□	1.80μH±20%	7.96MHz	0.025Ω	3.00A
SDR5845B-2R2M-□	2.20μH±20%	7.96MHz	0.030Ω	2.80A
SDR5845B-2R7M-□	2.70μH±20%	7.96MHz	0.035Ω	2.60A
SDR5845B-3R3M-□	3.30μH±20%	7.96MHz	0.040Ω	2.50A
SDR5845B-3R9M-□	3.90μH±20%	7.96MHz	0.050Ω	2.30A
SDR5845B-4R7M-□	4.70μH±20%	7.96MHz	0.060Ω	2.60A
SDR5845B-5R6M-□	5.60μH±20%	7.96MHz	0.070Ω	2.40A
SDR5845B-6R8M-□	6.80μH±20%	7.96MHz	0.080Ω	2.20A
SDR5845B-8R2M-□	8.20μH±20%	7.96MHz	0.080Ω	2.00A
SDR5845B-100M-□	10.00μH±20%	2.52MHz	0.090Ω	1.80A
SDR5845B-120M-□	12.00μH±20%	2.52MHz	0.100Ω	1.60A
SDR5845B-150M-□	15.00μH±20%	2.52MHz	0.120Ω	1.50A
SDR5845B-180M-□	18.00μH±20%	2.52MHz	0.150Ω	1.40A
SDR5845B-220M-□	22.00μH±20%	2.52MHz	0.180Ω	1.30A
SDR5845B-270M-□	27.00μH±20%	2.52MHz	0.220Ω	1.20A
SDR5845B-330M-□	33.00μH±20%	2.52MHz	0.260Ω	1.00A
SDR5845B-390M-□	39.00μH±20%	2.52MHz	0.300Ω	0.90A
SDR5845B-470M-□	47.00μH±20%	2.52MHz	0.350Ω	0.85A
SDR5845B-560M-□	56.00μH±20%	2.52MHz	0.400Ω	0.80A
SDR5845B-680M-□	68.00μH±20%	2.52MHz	0.450Ω	0.70A
SDR5845B-820M-□	82.00μH±20%	2.52MHz	0.500Ω	0.70A
SDR5845B-101M-□	100.00μH±20%	1.00KHz	0.700Ω	0.60A
SDR5845B-121M-□	120.00μH±20%	1.00KHz	0.750Ω	0.60A
SDR5845B-151M-□	150.00μH±20%	1.00KHz	0.900Ω	0.55A
SDR5845B-181M-□	180.00μH±20%	1.00KHz	1.100Ω	0.50A
SDR5845B-221M-□	220.00μH±20%	1.00KHz	1.200Ω	0.40A
SDR5845B-271M-□	270.00μH±20%	1.00KHz	1.500Ω	0.25A
SDR5845B-331M-□	330.00μH±20%	1.00KHz	3.000Ω	0.22A
SDR5845B-391M-□	390.00μH±20%	1.00KHz	3.500Ω	0.20A
SDR5845B-471M-□	470.00μH±20%	1.00KHz	4.000Ω	0.19A
SDR5845B-561M-□	560.00μH±20%	1.00KHz	4.000Ω	0.18A
SDR5845B-681M-□	680.00μH±20%	1.00KHz	4.500Ω	0.15A

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SMD Unshielded Power Inductor

SDR Series

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Max.
SDR7835B Series				
SDR7835B-100M-□	10.00μH±20%	2.52MHz	0.0803Ω	1.44A
SDR7835B-120M-□	12.00μH±20%	2.52MHz	0.0897Ω	1.39A
SDR7835B-150M-□	15.00μH±20%	2.52MHz	0.1040Ω	1.24A
SDR7835B-180M-□	18.00μH±20%	2.52MHz	0.1110Ω	1.12A
SDR7835B-220M-□	22.00μH±20%	2.52MHz	0.1290Ω	1.07A
SDR7835B-270M-□	27.00μH±20%	2.52MHz	0.1530Ω	0.97A
SDR7835B-330M-□	33.00μH±20%	2.52MHz	0.1700Ω	0.85A
SDR7835B-390M-□	39.00μH±20%	2.52MHz	0.2170Ω	0.74A
SDR7835B-470M-□	47.00μH±20%	2.52MHz	0.2520Ω	0.68A
SDR7835B-560K-□	56.00μH±10%	2.52MHz	0.2820Ω	0.64A
SDR7835B-680K-□	68.00μH±10%	2.52MHz	0.3320Ω	0.59A
SDR7835B-820K-□	82.00μH±10%	2.52MHz	0.4060Ω	0.54A
SDR7835B-101K-□	100.00μH±10%	1.00KHz	0.4810Ω	0.51A
SDR7835B-121K-□	120.00μH±10%	1.00KHz	0.5360Ω	0.49A
SDR7835B-151K-□	150.00μH±10%	1.00KHz	0.7550Ω	0.40A
SDR7835B-181K-□	180.00μH±10%	1.00KHz	1.0220Ω	0.36A
SDR7835B-221K-□	220.00μH±10%	1.00KHz	1.2000Ω	0.31A
SDR7835B-271K-□	270.00μH±10%	1.00KHz	1.3060Ω	0.29A
SDR7835B-331K-□	330.00μH±10%	1.00KHz	1.4950Ω	0.28A

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Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Max.
SDR7850B Series				
SDR7850B-1R0M-□	1.00μH±20%	7.96MHz	0.012Ω	5.50A
SDR7850B-3R3M-□	3.30μH±20%	7.96MHz	0.030Ω	4.60A
SDR7850B-4R7M-□	4.70μH±20%	7.96MHz	0.040Ω	4.20A
SDR7850B-100M-□	10.00μH±20%	2.52MHz	0.070Ω	2.30A
SDR7850B-120M-□	12.00μH±20%	2.52MHz	0.080Ω	2.00A
SDR7850B-150M-□	15.00μH±20%	2.52MHz	0.090Ω	1.80A
SDR7850B-180M-□	18.00μH±20%	2.52MHz	0.100Ω	1.60A
SDR7850B-220M-□	22.00μH±20%	2.52MHz	0.110Ω	1.50A
SDR7850B-270M-□	27.00μH±20%	2.52MHz	0.120Ω	1.30A
SDR7850B-330M-□	33.00μH±20%	2.52MHz	0.130Ω	1.20A
SDR7850B-390M-□	39.00μH±20%	2.52MHz	0.160Ω	1.10A
SDR7850B-470K-□	47.00μH±10%	2.52MHz	0.180Ω	1.10A
SDR7850B-560K-□	56.00μH±10%	2.52MHz	0.240Ω	0.94A
SDR7850B-680K-□	68.00μH±10%	2.52MHz	0.280Ω	0.85A
SDR7850B-820K-□	82.00μH±10%	2.52MHz	0.370Ω	0.78A
SDR7850B-101K-□	100.00μH±10%	1.00KHz	0.430Ω	0.72A
SDR7850B-121K-□	120.00μH±10%	1.00KHz	0.470Ω	0.66A
SDR7850B-151K-□	150.00μH±10%	1.00KHz	0.640Ω	0.58A
SDR7850B-181K-□	180.00μH±10%	1.00KHz	0.710Ω	0.51A
SDR7850B-221K-□	220.00μH±10%	1.00KHz	0.960Ω	0.49A
SDR7850B-271K-□	270.00μH±10%	1.00KHz	1.110Ω	0.42A
SDR7850B-331K-□	330.00μH±10%	1.00KHz	1.260Ω	0.40A
SDR7850B-391K-□	390.00μH±10%	1.00KHz	1.770Ω	0.36A
SDR7850B-471K-□	470.00μH±10%	1.00KHz	1.960Ω	0.34A

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