

SCRB SERIES

FAIRCHILD

■ SCRB SERIES SHAPES

OUTLINE:

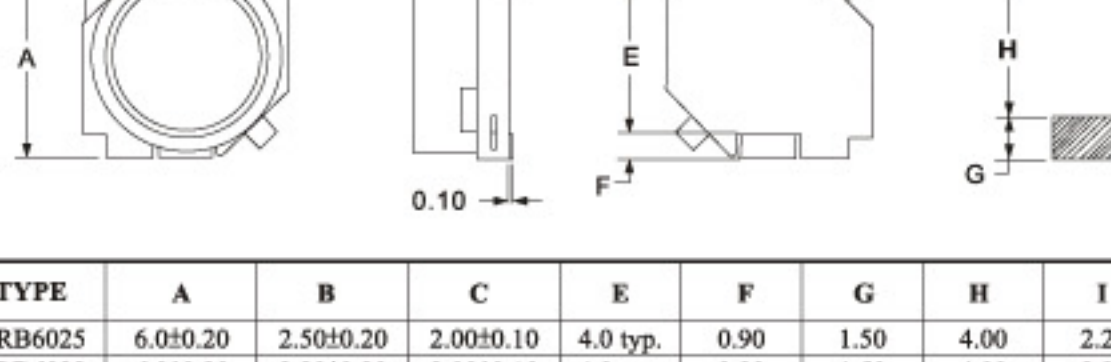
- Low-profile type with low Rdc and large current.
- The magnetic shielded type is suitable and high density mounting.
- Available on tape and reel for auto-insertion.
- Ideal for a variety of DC-DC converter inductor applications.



■ PRODUCT IDENTIFICATIONS



■ SHAPES AND DIMENSIONS



TYPE	A	B	C	E	F	G	H	I
SCRB6025	6.0±0.20	2.50±0.20	2.00±0.10	4.0 typ.	0.90	1.50	4.00	2.20
SCRB6028	6.0±0.20	2.80±0.20	2.00±0.10	4.0 typ.	0.90	1.50	4.00	2.20
SCRB7028	7.0±0.20	2.80±0.20	2.00±0.10	4.90 typ.	0.90	1.50	4.90	2.20
SCRB7030	7.0±0.20	3.00±0.20	2.00±0.10	4.90 typ.	0.90	1.50	4.90	2.20
SCRB7032	7.0±0.20	3.20±0.20	2.00±0.10	4.90 typ.	0.90	1.50	4.90	2.20
SCRB7045	7.0±0.20	4.50±0.30	2.00±0.10	4.90 typ.	0.90	1.50	4.90	2.20
SCRB10145	10.1±0.30	4.50±0.30	3.00±0.10	5.00±0.20	2.00±0.15	2.50	5.80	2.20
SCRB12555	12.50±0.30	5.50±0.30	3.00±0.10	8.60±0.30	2.00±0.15	2.50	8.60	3.20
SCRB12565	12.50±0.30	6.50±0.30	3.00±0.10	8.60±0.30	2.00±0.15	2.50	8.60	3.20
SCRB12575	12.50±0.30	7.50±0.30	3.00±0.10	8.60±0.30	2.00±0.15	2.50	8.60	3.20

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■ SCRB SERIES/6025 TYPE ELECTRICAL CHARACTERISTICS

PART NO.	INDUCTANCE (μ H)	L TEST FREQUENCY	DC RESISTANCE (Ω) $\pm 20\%$	RATED CURRENT (A) max
SCRB6025-4R7□	4.7 $\pm 20\%$	1KHz	0.03672	1.50
SCRB6025-6R8□	6.8 $\pm 20\%$	1KHz	0.05304	1.30
SCRB6025-100□	10 $\pm 20\%$	1KHz	0.06876	1.00
SCRB6025-150□	15 $\pm 20\%$	1KHz	0.102	0.88
SCRB6025-220□	22 $\pm 20\%$	1KHz	0.1464	0.73
SCRB6025-330□	33 $\pm 20\%$	1KHz	0.216	0.59
SCRB6025-470□	47 $\pm 20\%$	1KHz	0.288	0.48
SCRB6025-680□	68 $\pm 20\%$	1KHz	0.444	0.42
SCRB6025-101□	100 $\pm 20\%$	1KHz	0.6	0.33

□: Inductance tolerance (K: $\pm 10\%$, L: $\pm 15\%$, M: $\pm 20\%$)

■ SCRB SERIES/6028 TYPE ELECTRICAL CHARACTERISTICS

PART NO.	INDUCTANCE (μ H)	L TEST FREQUENCY	DC RESISTANCE (Ω) $\pm 20\%$	RATED CURRENT (A) max
SCRB6028-4R7□	4.7 $\pm 20\%$	1KHz	0.0284	1.6
SCRB6028-6R8□	6.8 $\pm 20\%$	1KHz	0.0354	1.5
SCRB6028-100□	10 $\pm 20\%$	1KHz	0.0532	1.3
SCRB6028-150□	15 $\pm 20\%$	1KHz	0.0745	1.0
SCRB6028-220□	22 $\pm 20\%$	1KHz	0.104	0.77
SCRB6028-330□	33 $\pm 20\%$	1KHz	0.148	0.69
SCRB6028-470□	47 $\pm 20\%$	1KHz	0.21	0.59
SCRB6028-680□	68 $\pm 20\%$	1KHz	0.29	0.50
SCRB6028-101□	100 $\pm 20\%$	1KHz	0.43	0.42

□: Inductance tolerance (K: $\pm 10\%$, L: $\pm 15\%$, M: $\pm 20\%$)

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■ SCRB SERIES/7028 TYPE ELECTRICAL CHARACTERISTICS

PART NO.	INDUCTANCE (μ H)	L TEST FREQUENCY	DC RESISTANCE (Ω) $\pm 20\%$	RATED CURRENT (A) max
SCRB7028-3R3□	3.3 $\pm 20\%$	1KHz	0.037	1.60
SCRB7028-4R7□	4.7 $\pm 20\%$	1KHz	0.045	1.50
SCRB7028-6R8□	6.8 $\pm 20\%$	1KHz	0.059	1.30
SCRB7028-100□	10 $\pm 20\%$	1KHz	0.083	1.10
SCRB7028-150□	15 $\pm 20\%$	1KHz	0.130	0.88
SCRB7028-220□	22 $\pm 20\%$	1KHz	0.180	0.75
SCRB7028-330□	33 $\pm 20\%$	1KHz	0.240	0.65
SCRB7028-470□	47 $\pm 20\%$	1KHz	0.340	0.54

□: Inductance tolerance (K: $\pm 10\%$, L: $\pm 15\%$, M: $\pm 20\%$)

■ SCRB SERIES/7030 TYPE ELECTRICAL CHARACTERISTICS

PART NO.	INDUCTANCE (μ H)	L TEST FREQUENCY	DC RESISTANCE (Ω) $\pm 20\%$	RATED CURRENT (A) max
SCRB7030-3R3□	3.3 $\pm 20\%$	1KHz	0.023	1.80
SCRB7030-4R7□	4.7 $\pm 20\%$	1KHz	0.036	1.60
SCRB7030-6R8□	6.8 $\pm 20\%$	1KHz	0.041	1.50
SCRB7030-100□	10 $\pm 20\%$	1KHz	0.053	1.30
SCRB7030-150□	15 $\pm 20\%$	1KHz	0.084	1.00
SCRB7030-220□	22 $\pm 20\%$	1KHz	0.110	0.86
SCRB7030-330□	33 $\pm 20\%$	1KHz	0.160	0.65
SCRB7030-470□	47 $\pm 20\%$	1KHz	0.240	0.57
SCRB7030-680□	68 $\pm 20\%$	1KHz	0.310	0.49
SCRB7030-101□	100 $\pm 20\%$	1KHz	0.450	0.35

□: Inductance tolerance (K: $\pm 10\%$, L: $\pm 15\%$, M: $\pm 20\%$)

■ SCRB SERIES/7032 TYPE ELECTRICAL CHARACTERISTICS

PART NO.	INDUCTANCE (μ H)	L TEST FREQUENCY	DC RESISTANCE (Ω) $\pm 20\%$	RATED CURRENT (A) max
SCRB7032-3R3□	3.3 $\pm 20\%$	1KHz	0.023	1.90
SCRB7032-4R7□	4.7 $\pm 20\%$	1KHz	0.036	1.70
SCRB7032-6R8□	6.8 $\pm 20\%$	1KHz	0.041	1.60
SCRB7032-100□	10 $\pm 20\%$	1KHz	0.053	1.40
SCRB7032-150□	15 $\pm 20\%$	1KHz	0.075	1.10
SCRB7032-220□	22 $\pm 20\%$	1KHz	0.110	0.96
SCRB7032-330□	33 $\pm 20\%$	1KHz	0.160	0.75
SCRB7032-470□	47 $\pm 20\%$	1KHz	0.240	0.67
SCRB7032-680□	68 $\pm 20\%$	1KHz	0.310	0.59
SCRB7032-101□	100 $\pm 20\%$	1KHz	0.450	0.45
SCRB7032-151□	150 $\pm 20\%$	1KHz	0.650	0.37
SCRB7032-221□	220 $\pm 20\%$	1KHz	1.050	0.29
SCRB7032-331□	330 $\pm 20\%$	1KHz	1.670	0.22
SCRB7032-471□	470 $\pm 20\%$	1KHz	2.050	0.20
SCRB7032-681□	680 $\pm 20\%$	1KHz	3.150	0.16
SCRB7032-102□	1000 $\pm 20\%$	1KHz	4.780	0.13

□: Inductance tolerance (K: $\pm 10\%$, L: $\pm 15\%$, M: $\pm 20\%$)

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■ SCRB SERIES/7045 TYPE ELECTRICAL CHARACTERISTICS

PART NO.	INDUCTANCE (μ H)	L TEST FREQUENCY	DC RESISTANCE (Ω) $\pm 20\%$	RATED CURRENT (A) max
SCRB7045-3R3□	3.3 $\pm 20\%$	1KHz	0.020	2.50
SCRB7045-4R7□	4.7 $\pm 20\%$	1KHz	0.030	2.00
SCRB7045-6R8□	6.8 $\pm 20\%$	1KHz	0.039	1.70
SCRB7045-100□	10 $\pm 20\%$	1KHz	0.036	1.30
SCRB7045-150□	15 $\pm 20\%$	1KHz	0.052	1.10
SCRB7045-220□	22 $\pm 20\%$	1KHz	0.061	0.90
SCRB7045-330□	33 $\pm 20\%$	1KHz	0.096	0.82
SCRB7045-470□	47 $\pm 20\%$	1KHz	0.125	0.75
SCRB7045-680□	68 $\pm 20\%$	1KHz	0.175	0.60
SCRB7045-101□	100 $\pm 20\%$	1KHz	0.250	0.50
SCRB7045-151□	150 $\pm 20\%$	1KHz	0.340	0.40
SCRB7045-221□	220 $\pm 20\%$	1KHz	0.520	0.33
SCRB7045-331□	330 $\pm 20\%$	1KHz	0.740	0.25
SCRB7045-471□	470 $\pm 20\%$	1KHz	1.050	0.22
SCRB7045-681□	680 $\pm 20\%$	1KHz	1.480	0.20
SCRB7045-102□	1000 $\pm 20\%$	1KHz	2.280	0.14

□: Inductance tolerance (K: $\pm 10\%$, L: $\pm 15\%$, M: $\pm 20\%$)

■ SCRB SERIES/10145 TYPE ELECTRICAL CHARACTERISTICS

PART NO.	INDUCTANCE (μ H)	L TEST FREQUENCY	DC RESISTANCE (Ω) $\pm 20\%$	RATED CURRENT (A) max
SCRB10145-100□	10 $\pm 20\%$	1KHz	0.0384	2.50
SCRB10145-150□	15 $\pm 20\%$	1KHz	0.0472	2.20
SCRB10145-220□	22 $\pm 20\%$	1KHz	0.0591	1.90
SCRB10145-330□	33 $\pm 20\%$	1KHz	0.0815	1.60
SCRB10145-470□	47 $\pm 20\%$	1KHz	0.1000	1.40
SCRB10145-680□	68 $\pm 20\%$	1KHz	0.140	1.20
SCRB10145-101□	100 $\pm 20\%$	1KHz	0.200	1.00
SCRB10145-151□	150 $\pm 20\%$	1KHz	0.350	0.79
SCRB10145-221□	220 $\pm 20\%$	1KHz	0.470	0.65
SCRB10145-331□	330 $\pm 20\%$	1KHz	0.680	0.54
SCRB10145-471□	470 $\pm 20\%$	1KHz	1.030	0.47
SCRB10145-681□	680 $\pm 20\%$	1KHz	1.500	0.38
SCRB10145-102□	1000 $\pm 20\%$	1KHz	2.800	0.29
SCRB10145-152□	1500 $\pm 20\%$	1KHz	3.400	0.22

□: Inductance tolerance (K: $\pm 10\%$, L: $\pm 15\%$, M: $\pm 20\%$)

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■ SCRB SERIES/12555 TYPE ELECTRICAL CHARACTERISTICS

PART NO.	INDUCTANCE (μ H)	L TEST FREQUENCY	DC RESISTANCE (Ω) $\pm 20\%$	RATED CURRENT (A) max
SCRB12555-6R0□	6.0 $\pm 30\%$	1KHz	0.0164	3.60
SCRB12555-100□	10 $\pm 20\%$	1KHz	0.0215	3.40
SCRB12555-150□	15 $\pm 20\%$	1KHz	0.0259	2.80
SCRB12555-220□	22 $\pm 20\%$	1KHz	0.0338	2.30
SCRB12555-330□	33 $\pm 20\%$	1KHz	0.0415	1.90
SCRB12555-470□	47 $\pm 20\%$	1KHz	0.0618	1.60
SCRB12555-680□	68 $\pm 20\%$	1KHz	0.0832	1.30
SCRB12555-101□	100 $\pm 20\%$	1KHz	0.117	1.10
SCRB12555-151□	150 $\pm 20\%$	1KHz	0.190	0.88
SCRB12555-221□	220 $\pm 20\%$	1KHz	0.270	0.72
SCRB12555-331□	330 $\pm 20\%$	1KHz	0.410	0.59
SCRB12555-471□	470 $\pm 20\%$	1KHz	0.520	0.49
SCRB12555-681□	680 $\pm 20\%$	1KHz	0.760	0.43
SCRB12555-102□	1000 $\pm 20\%$	1KHz	1.120	0.34
SCRB12555-152□	1500 $\pm 20\%$	1KHz	1.730	0.29

□: Inductance tolerance (K: $\pm 10\%$, L: $\pm 15\%$, M: $\pm 20\%$)

■ SCRB SERIES/12565 TYPE ELECTRICAL CHARACTERISTICS

PART NO.	INDUCTANCE (μ H)	L TEST FREQUENCY	DC RESISTANCE (Ω) $\pm 20\%$	RATED CURRENT (A) max
SCRB12565-2R0□	2.0 $\pm 30\%$	1KHz	0.0117	6.20
SCRB12565-4R2□	4.2 $\pm 30\%$	1KHz	0.0150	5.50
SCRB12565-7R0□	7.0 $\pm 30\%$	1KHz	0.0177	5.00
SCRB12565-100□	10 $\pm 20\%$	1KHz	0.0202	4.80
SCRB12565-220□	22 $\pm 20\%$	1KHz	0.0237	4.20
SCRB12565-330□	33 $\pm 20\%$	1KHz	0.0316	3.50
SCRB12565-470□	47 $\pm 20\%$	1KHz	0.0406	2.80
SCRB12565-680□	68 $\pm 20\%$	1KHz	0.0578	2.40
SCRB12565-101□	100 $\pm 20\%$	1KHz	0.0787	2.00
SCRB12565-151□	150 $\pm 20\%$	1KHz	0.123	1.60
SCRB12565-221□	220 $\pm 20\%$	1KHz	0.273	1.00

□: Inductance tolerance (K: $\pm 10\%$, L: $\pm 15\%$, M: $\pm 20\%$)

■ SCRB SERIES/12575 TYPE ELECTRICAL CHARACTERISTICS

SCRB SERIES/12575 TYPE ELECTRICAL CHARACTERISTICS				
PART NO.	INDUCTANCE (μ H)	L TEST FREQUENCY	DC RESISTANCE (Ω) $\pm 20\%$	RATED CURRENT (A) max
SCRB12575-1R2□	1.2 $\pm$ 30%	1KHz	0.0069	8.2
SCRB12575-2R7□	2.7 $\pm$ 30%	1KHz	0.0094	7.0
SCRB12575-3R9□	3.9 $\pm$ 30%	1KHz	0.0104	6.7
SCRB12575-5R6□	5.6 $\pm$ 30%	1KHz	0.0116	6.3
SCRB12575-6R8□	6.8 $\pm$ 30%	1KHz	0.0131	5.9
SCRB12575-100□	10 $\pm$ 20%	1KHz	0.0156	5.4
SCRB12575-150□	15 $\pm$ 20%	1KHz	0.0184	4.7
SCRB12575-220□	22 $\pm$ 20%	1KHz	0.0263	4.0
SCRB12575-330□	33 $\pm$ 20%	1KHz	0.0395	3.2
SCRB12575-470□	47 $\pm$ 20%	1KHz	0.0528	2.7
SCRB12575-680□	68 $\pm$ 20%	1KHz	0.0778	2.0
SCRB12575-101□	100 $\pm$ 20%	1KHz	0.125	1.9
SCRB12575-151□	150 $\pm$ 20%	1KHz	0.175	1.5