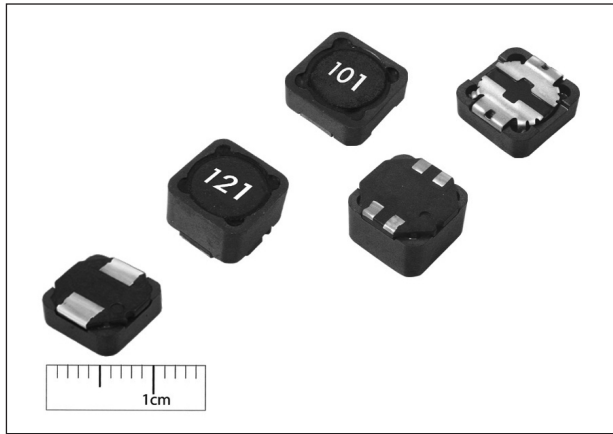


EB
17



● PART NUMBERING

EB - □□□ □ □□ □□
(1) (2) (3) (4) (5) (6)

- (1) Series
- (2) Inductance
- (3) Tolerance
- (4) Dimension
- (5) Material
- (6) Internal Serial No.

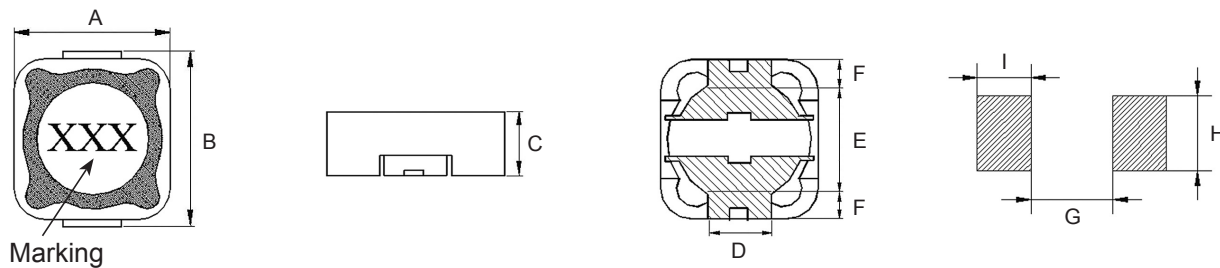
● FEATURES

- Magnetically shielded drum core inductors.
- Low resistance to keep power loss at a minimum.
- High current rating.
- Large surface for soldering in reflow production.

● APPLICATIONS

- Switching power supplies
- Noise filtering and RFI / EMC filtering
- DC/DC converters
- Computers and DVD players
- Buck, boost, forward, and resonant converters
- LCD panels

● CONFIGURATIONS & DIMENSIONS



Unit : mm

SERIES	A	B	C	D	E	F	G	H	I
EB-17G	10.5 Max.	10.5 Max.	4.0 Max.	4.2 Typ.	6.0 Typ.	2.0 Typ.	5.0 Typ.	4.5 Typ.	2.5 Typ.
EB-18G	10.5 Max.	10.5 Max.	4.5 Max.	4.2 Typ.	6.0 Typ.	2.0 Typ.	5.0 Typ.	4.5 Typ.	2.5 Typ.
EB-22G	12.5 Max.	12.5 Max.	4.0 Max.	5.0 Typ.	7.6 Typ.	2.2 Typ.	7.0 Typ.	5.4 Typ.	2.8 Typ.
EB-23G	12.5 Max.	12.5 Max.	5.0 Max.	5.0 Typ.	7.6 Typ.	2.2 Typ.	7.0 Typ.	5.4 Typ.	2.8 Typ.
EB-24G	12.5 Max.	12.5 Max.	6.0 Max.	5.0 Typ.	7.6 Typ.	2.2 Typ.	7.0 Typ.	5.4 Typ.	2.8 Typ.
EB-25G	12.5 Max.	12.5 Max.	8.0 Max.	5.0 Typ.	7.6 Typ.	2.2 Typ.	7.0 Typ.	5.4 Typ.	2.8 Typ.
EB-26G	12.5 Max.	12.5 Max.	10 Max.	5.0 Typ.	7.6 Typ.	2.2 Typ.	7.0 Typ.	5.4 Typ.	2.8 Typ.
EB-86G	14.3 Max.	14.3 Max.	5.5 Max.	5.0 Typ.	9.8 Typ.	2.0 Typ.	8.0 Typ.	6.0 Typ.	3.5 Typ.
EB-95G	14.3 Max.	14.3 Max.	4.3 Max.	5.0 Typ.	9.8 Typ.	2.0 Typ.	8.0 Typ.	6.0 Typ.	3.5 Typ.

• For packaging information, please refer to page P.98.

● ELECTRICAL CHARACTERISTICS

New Part No.	Old Part No.	L (μ H)	FREQ. (KHz/0.1V)	DCR (Ω , Max.)	Isat (A, Max.)	Irms (A, Max.)
EB-15A□17G□□	SDSG103D-1R5□	1.5	100	0.016	8.00	7.00
EB-22A□17G□□	SDSG103D-2R2□	2.2	100	0.020	6.00	5.00
EB-39A□17G□□	SDSG103D-3R9□	3.9	100	0.032	5.00	4.50
EB-47A□17G□□	SDSG103D-4R7□	4.7	100	0.040	4.50	4.00
EB-56A□17G□□	SDSG103D-5R6□	5.6	100	0.056	4.00	3.60
EB-100□17G□□	SDSG103D-100□	10	100	0.070	3.00	2.50
EB-150□17G□□	SDSG103D-150□	15	100	0.110	2.30	2.00
EB-220□17G□□	SDSG103D-220□	22	100	0.170	2.00	1.80
EB-330□17G□□	SDSG103D-330□	33	100	0.320	1.90	1.80
EB-470□17G□□	SDSG103D-470□	47	100	0.480	1.70	1.50
EB-680□17G□□	SDSG103D-680□	68	100	0.650	1.50	1.10
EB-101□17G□□	SDSG103D-101□	100	100	0.750	1.30	1.00
EB-221□17G□□	SDSG103D-121□	120	100	0.900	0.85	0.80
EB-151□17G□□	SDSG103D-151□	150	100	1.120	0.75	0.70
EB-221□17G□□	SDSG103D-221□	220	100	1.450	0.60	0.50
EB-331□17G□□	SDSG103D-331□	330	100	1.850	0.50	0.40
EB-15A□18G□□	SDSG104D-1R5□	1.5	100	0.011	9.00	8.50
EB-22A□18G□□	SDSG104D-2R2□	2.2	100	0.010	8.50	7.00
EB-33A□18G□□	SDSG104D-3R3□	3.3	100	0.019	6.50	6.00
EB-47A□18G□□	SDSG104D-4R7□	4.7	100	0.021	6.20	5.80
EB-56A□18G□□	SDSG104D-5R6□	5.6	100	0.026	5.60	5.00
EB-68A□18G□□	SDSG104D-6R8□	6.8	100	0.030	5.20	5.00
EB-100□18G□□	SDSG104D-100□	10	100	0.042	4.00	4.50
EB-150□18G□□	SDSG104D-150□	15	100	0.085	2.50	2.20
EB-220□18G□□	SDSG104D-220□	22	100	0.130	2.20	2.00
EB-330□18G□□	SDSG104D-330□	33	100	0.140	2.00	1.80
EB-470□18G□□	SDSG104D-470□	47	100	0.180	1.90	1.80
EB-680□18G□□	SDSG104D-680□	68	100	0.260	1.60	1.40
EB-101□18G□□	SDSG104D-101□	100	100	0.580	1.50	1.40
EB-151□18G□□	SDSG104D-151□	150	100	0.750	1.30	1.20
EB-221□18G□□	SDSG104D-221□	220	100	1.120	1.20	1.00
EB-331□18G□□	SDSG104D-331□	330	100	1.450	1.00	0.85

- Tested at 25°C.
- Temperature rise : 40°C Typ. at Irms
- Inductance drop : 25% Typ. at Isat
- Operating temperature : -55°C to +105°C
- Storage temperature : -40°C to +85°C

● ELECTRICAL CHARACTERISTICS

New Part No.	Old Part No.	L (μ H)	FREQ. (KHz/0.1V)	DCR (Ω , Max.)	Isat (A, Max.)	Irms (A, Max.)
EB-15A□22G□□	SDSG123D-1R5□	1.5	100	0.013	7.50	7.00
EB-22A□22G□□	SDSG123D-2R2□	2.2	100	0.018	6.50	6.00
EB-33A□22G□□	SDSG123D-3R3□	3.3	100	0.024	6.00	5.40
EB-47A□22G□□	SDSG123D-4R7□	4.7	100	0.030	5.00	4.50
EB-68A□22G□□	SDSG123D-6R8□	6.8	100	0.042	4.20	4.00
EB-100□22G□□	SDSG123D-100□	10	100	0.060	3.50	2.80
EB-150□22G□□	SDSG123D-150□	15	100	0.090	2.50	2.30
EB-220□22G□□	SDSG123D-220□	22	100	0.110	2.50	2.00
EB-330□22G□□	SDSG123D-330□	33	100	0.180	2.00	1.50
EB-470□22G□□	SDSG123D-470□	47	100	0.250	1.80	1.50
EB-680□22G□□	SDSG123D-680□	68	100	0.330	1.70	1.50
EB-101□22G□□	SDSG123D-101□	100	100	0.420	1.50	1.20
EB-221□22G□□	SDSG123D-221□	220	100	0.820	1.20	1.00
EB-331□22G□□	SDSG123D-331□	330	100	1.450	0.72	0.70
EB-471□22G□□	SDSG123D-471□	470	100	1.920	0.70	0.64
EB-681□22G□□	SDSG123D-681□	680	100	2.720	0.60	0.52
EB-102□22G□□	SDSG123D-102□	1000	100	4.200	0.55	0.48
EB-15A□23G□□	SDSG124D-1R5□	1.5	100	0.007	12.0	9.80
EB-22A□23G□□	SDSG124D-2R2□	2.2	100	0.010	11.0	9.50
EB-33A□23G□□	SDSG124D-3R3□	3.3	100	0.010	8.50	7.10
EB-47A□23G□□	SDSG124D-4R7□	4.7	100	0.015	8.00	7.00
EB-68A□23G□□	SDSG124D-6R8□	6.8	100	0.027	5.80	4.80
EB-100□23G□□	SDSG124D-100□	10	100	0.038	4.00	3.00
EB-120□23G□□	SDSG124D-120□	12	100	0.040	4.00	2.90
EB-150□23G□□	SDSG124D-150□	15	100	0.050	4.00	3.20
EB-180□23G□□	SDSG124D-180□	18	100	0.057	3.80	3.10
EB-220□23G□□	SDSG124D-220□	22	100	0.078	3.20	2.90
EB-270□23G□□	SDSG124D-270□	27	100	0.080	3.00	2.80
EB-330□23G□□	SDSG124D-330□	33	100	0.097	2.80	2.20
EB-470□23G□□	SDSG124D-470□	47	100	0.150	2.00	1.90
EB-560□23G□□	SDSG124D-560□	56	100	0.190	1.80	1.70
EB-680□23G□□	SDSG124D-680□	68	100	0.220	1.70	1.50
EB-820□23G□□	SDSG124D-820□	82	100	0.260	1.30	1.10
EB-101□23G□□	SDSG124D-101□	100	100	0.308	1.20	1.00
EB-121□23G□□	SDSG124D-121□	120	100	0.380	1.10	1.00
EB-151□23G□□	SDSG124D-151□	150	100	0.530	0.95	0.90
EB-181□23G□□	SDSG124D-181□	180	100	0.620	0.85	0.80
EB-221□23G□□	SDSG124D-221□	220	100	0.700	0.80	0.79
EB-271□23G□□	SDSG124D-271□	270	100	0.876	0.60	0.55
EB-331□23G□□	SDSG124D-331□	330	100	0.990	0.50	0.48
EB-471□23G□□	SDSG124D-471□	470	100	1.450	0.48	0.45
EB-681□23G□□	SDSG124D-681□	680	100	2.040	0.46	0.42
EB-102□23G□□	SDSG124D-102□	1000	100	2.880	0.40	0.35

- Tested at 25°C.
- Temperature rise : 40°C Typ. at I_{rms}
- Inductance drop : 25% Typ. at I_{sat}
- Operating temperature : -55°C to +105°C
- Storage temperature : -40°C to +85°C

● ELECTRICAL CHARACTERISTICS

New Part No.	Old Part No.	L (μ H)	FREQ. (KHz/0.1V)	DCR (Ω , Max.)	Isat (A, Max.)	Irms (A, Max.)
EB-10A□24G□□	SDSG125D-1R0□	1.0	100	0.004	19.00	15.00
EB-22A□24G□□	SDSG125D-2R2□	2.2	100	0.009	10.00	8.00
EB-33A□24G□□	SDSG125D-3R3□	3.3	100	0.010	9.00	8.30
EB-47A□24G□□	SDSG125D-4R7□	4.7	100	0.013	8.50	8.00
EB-68A□24G□□	SDSG125D-6R8□	6.8	100	0.022	7.00	6.64
EB-100□24G□□	SDSG125D-100□	10	100	0.025	5.00	4.00
EB-120□24G□□	SDSG125D-120□	12	100	0.027	4.00	3.50
EB-150□24G□□	SDSG125D-150□	15	100	0.030	3.50	3.30
EB-180□24G□□	SDSG125D-180□	18	100	0.034	3.20	3.00
EB-220□24G□□	SDSG125D-220□	22	100	0.036	3.00	2.80
EB-270□24G□□	SDSG125D-270□	27	100	0.051	2.50	2.30
EB-330□24G□□	SDSG125D-330□	33	100	0.057	2.30	2.10
EB-390□24G□□	SDSG125D-390□	39	100	0.068	2.20	2.00
EB-470□24G□□	SDSG125D-470□	47	100	0.075	2.00	1.80
EB-560□24G□□	SDSG125D-560□	56	100	0.110	1.80	1.70
EB-680□24G□□	SDSG125D-680□	68	100	0.120	1.70	1.50
EB-820□24G□□	SDSG125D-820□	82	100	0.140	1.50	1.40
EB-101□24G□□	SDSG125D-101□	100	100	0.160	1.40	1.30
EB-121□24G□□	SDSG125D-121□	120	100	0.170	1.30	1.10
EB-151□24G□□	SDSG125D-151□	150	100	0.230	1.10	1.00
EB-181□24G□□	SDSG125D-181□	180	100	0.290	1.00	0.90
EB-221□24G□□	SDSG125D-221□	220	100	0.400	0.90	0.80
EB-271□24G□□	SDSG125D-271□	270	100	0.460	0.80	0.75
EB-331□24G□□	SDSG125D-331□	330	100	0.510	0.70	0.68
EB-391□24G□□	SDSG125D-391□	390	100	0.690	0.68	0.65
EB-471□24G□□	SDSG125D-471□	470	100	0.770	0.60	0.58
EB-561□24G□□	SDSG125D-561□	560	100	0.860	0.58	0.54
EB-681□24G□□	SDSG125D-681□	680	100	1.200	0.53	0.48
EB-821□24G□□	SDSG125D-821□	820	100	1.340	0.47	0.43
EB-102□24G□□	SDSG125D-102□	1000	100	1.530	0.45	0.40

- Tested at 25°C.
- Temperature rise : 40°C Typ. at I_{rms}
- Inductance drop : 25% Typ. at I_{sat}
- Operating temperature : -55°C to +105°C
- Storage temperature : -40°C to +85°C

● ELECTRICAL CHARACTERISTICS

New Part No.	Old Part No.	L (μ H)	FREQ. (KHz/0.1V)	DCR (Ω , Max.)	Isat (A, Max.)	Irms (A, Max.)
EB-15A□25G□□	SDSG127D-1R5□	1.5	100	0.0040	18.50	14.40
EB-24A□25G□□	SDSG127D-2R4□	2.4	100	0.0065	16.00	14.00
EB-35A□25G□□	SDSG127D-3R5□	3.5	100	0.0075	12.00	10.00
EB-47A□25G□□	SDSG127D-4R7□	4.7	100	0.0158	10.00	10.00
EB-68A□25G□□	SDSG127D-6R8□	6.8	100	0.0140	8.50	7.00
EB-100□25G□□	SDSG127D-100□	10	100	0.0216	7.00	6.50
EB-150□25G□□	SDSG127D-150□	15	100	0.0270	5.03	4.50
EB-180□25G□□	SDSG127D-180□	18	100	0.0392	4.50	3.90
EB-220□25G□□	SDSG127D-220□	22	100	0.0432	4.00	3.60
EB-270□25G□□	SDSG127D-270□	27	100	0.0459	3.80	3.40
EB-330□25G□□	SDSG127D-330□	33	100	0.0648	3.50	3.00
EB-390□25G□□	SDSG127D-390□	39	100	0.0729	3.00	2.75
EB-470□25G□□	SDSG127D-470□	47	100	0.0100	2.80	2.50
EB-560□25G□□	SDSG127D-560□	56	100	0.1100	2.50	2.35
EB-680□25G□□	SDSG127D-680□	68	100	0.1400	2.30	2.10
EB-820□25G□□	SDSG127D-820□	82	100	0.1600	2.20	1.95
EB-101□25G□□	SDSG127D-101□	100	100	0.2200	2.00	1.70
EB-121□25G□□	SDSG127D-121□	120	100	0.2500	1.80	1.60
EB-151□25G□□	SDSG127D-151□	150	100	0.2800	1.55	1.42
EB-181□25G□□	SDSG127D-181□	180	100	0.3500	1.45	1.30
EB-221□25G□□	SDSG127D-221□	220	100	0.3900	1.28	1.16
EB-271□25G□□	SDSG127D-271□	270	100	0.5600	1.20	1.06
EB-331□25G□□	SDSG127D-331□	330	100	0.6400	1.00	0.95
EB-391□25G□□	SDSG127D-391□	390	100	0.7000	0.90	0.88
EB-471□25G□□	SDSG127D-471□	470	100	0.9800	0.85	0.79
EB-561□25G□□	SDSG127D-561□	560	100	1.0700	0.80	0.73
EB-681□25G□□	SDSG127D-681□	680	100	1.4600	0.70	0.67
EB-821□25G□□	SDSG127D-821□	820	100	1.6400	0.65	0.60
EB-102□25G□□	SDSG127D-102□	1000	100	1.8200	0.60	0.55

- Tested at 25°C.
- Temperature rise : 40°C Typ. at I_{rms}
- Inductance drop : 25% Typ. at I_{sat}
- Operating temperature : -55°C to +105°C
- Storage temperature : -40°C to +85°C

● ELECTRICAL CHARACTERISTICS

New Part No.	Old Part No.	L (μ H)	FREQ. (KHz/0.1V)	DCR (Ω , Max.)	Isat (A, Max.)	Irms (A, Max.)
EB-15A□26G□□	SDSG129D-1R5□	1.5	100	0.005	16.50	14.50
EB-22A□26G□□	SDSG129D-2R2□	2.2	100	0.006	16.00	14.00
EB-33A□26G□□	SDSG129D-3R3□	3.3	100	0.009	14.00	13.00
EB-47A□26G□□	SDSG129D-4R7□	4.7	100	0.011	12.00	10.00
EB-56A□26G□□	SDSG129D-5R6□	5.6	100	0.014	11.00	9.60
EB-68A□26G□□	SDSG129D-6R8□	6.8	100	0.015	10.50	8.00
EB-100□26G□□	SDSG129D-100□	10	100	0.022	9.00	7.00
EB-120□26G□□	SDSG129D-120□	12	100	0.024	7.50	7.00
EB-150□26G□□	SDSG129D-150□	15	100	0.026	7.00	6.50
EB-180□26G□□	SDSG129D-180□	18	100	0.030	6.50	6.00
EB-220□26G□□	SDSG129D-220□	22	100	0.035	5.50	5.00
EB-270□26G□□	SDSG129D-270□	27	100	0.045	5.00	4.50
EB-330□26G□□	SDSG129D-330□	33	100	0.050	4.50	4.00
EB-390□26G□□	SDSG129D-390□	39	100	0.062	4.00	3.60
EB-470□26G□□	SDSG129D-470□	47	100	0.085	3.80	3.00
EB-560□26G□□	SDSG129D-560□	56	100	0.100	3.20	2.80
EB-680□26G□□	SDSG129D-680□	68	100	0.110	3.00	2.50
EB-820□26G□□	SDSG129D-820□	82	100	0.140	2.80	2.30
EB-101□26G□□	SDSG129D-101□	100	100	0.170	2.50	2.10
EB-121□26G□□	SDSG129D-121□	120	100	0.200	2.30	2.00
EB-151□26G□□	SDSG129D-151□	150	100	0.240	2.10	2.00
EB-181□26G□□	SDSG129D-181□	180	100	0.270	2.10	1.90
EB-221□26G□□	SDSG129D-221□	220	100	0.300	2.00	1.80
EB-271□26G□□	SDSG129D-271□	270	100	0.380	1.50	1.30
EB-331□26G□□	SDSG129D-331□	330	100	0.650	1.20	0.90
EB-391□26G□□	SDSG129D-391□	390	100	0.670	0.95	0.85
EB-471□26G□□	SDSG129D-471□	470	100	0.850	0.85	0.80
EB-561□26G□□	SDSG129D-561□	560	100	0.900	0.80	0.70
EB-681□26G□□	SDSG129D-681□	680	100	1.000	0.70	0.65
EB-821□26G□□	SDSG129D-821□	820	100	1.150	0.65	0.60
EB-102□26G□□	SDSG129D-102□	1000	100	1.650	0.60	0.55
EB-33A□86G□□	SDSG144D-3R3□	3.3	100	0.017	7.50	7.50
EB-47A□86G□□	SDSG144D-4R7□	4.7	100	0.019	7.00	6.00
EB-68A□86G□□	SDSG144D-6R8□	6.8	100	0.025	6.20	5.50
EB-100□86G□□	SDSG144D-100□	10	100	0.038	5.70	5.00
EB-47A□95G□□	SDSG143D-4R7□	4.7	100	0.027	6.00	5.00
EB-68A□95G□□	SDSG143D-6R8□	6.8	100	0.040	5.20	4.80
EB-100□95G□□	SDSG143D-100□	10	100	0.058	4.60	4.00

- Tested at 25°C.
- Temperature rise : 40°C Typ. at Irms
- Inductance drop : 25% Typ. at Isat
- Operating temperature : -55°C to +105°C
- Storage temperature : -40°C to +85°C

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