

# SMD POWER INDUCTORS (EB-XXL SERIES)

**trio**

EB  
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## ● PART NUMBERING

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

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

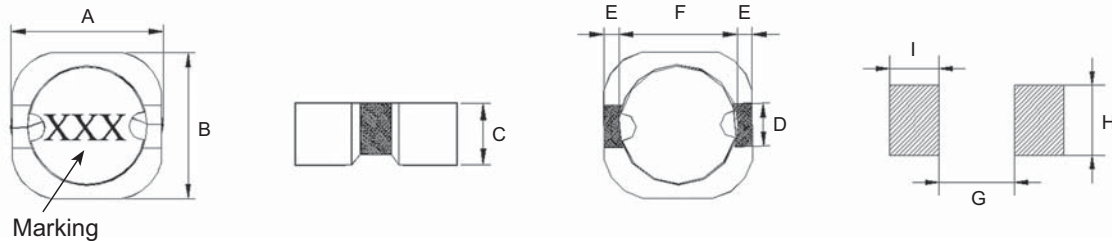
## ● FEATURES

- Low profile.
- Magnetically shielded construction with high current rating.
- Excellent solderability and high heat resistance.
- Low DC resistance.

## ● APPLICATIONS

- DC/DC converters
- LCD displays
- Computers, especially laptops
- Digital cameras
- PDAs and other electronics equipment

## ● CONFIGURATIONS & DIMENSIONS



Unit : mm

SERIES	A	B	C	D	E	F	G	H	I
EB-10L	7.0 Max.	6.2 Max.	2.2 Max.	2.0 Typ.	0.6 Typ.	4.8 Typ.	4.6 Typ.	2.6 Typ.	1.0 Typ.
	6.8 Max.	6.5 Max.	2.8 Max.	2.0 Typ.	0.6 Typ.	4.8 Typ.	4.6 Typ.	2.6 Typ.	1.0 Typ.
EB-11L	7.0 Max.	6.5 Max.	3.5 Max.	2.0 Typ.	0.6 Typ.	4.8 Typ.	4.6 Typ.	2.6 Typ.	1.0 Typ.

• For packaging information, please refer to page P.96. & 97.

● ELECTRICAL CHARACTERISTICS

New Part No.	Old Part No.	L ( $\mu$ H)	FREQ. (KHz/0.1V)	DCR ( $\Omega$ , Max.)	Isat (A, Max.)	Irms (A, Max.)
EB-10A□10L□□	SDSG62A-1R0□	1.0	100	0.017	3.50	3.70
EB-15A□10L□□	SDSG62A-1R5□	1.5	100	0.021	2.94	3.17
EB-20A□10L□□	SDSG62A-2R0□	2.0	100	0.029	2.47	2.47
EB-33A□10L□□	SDSG62A-3R3□	3.3	100	0.047	1.99	2.10
EB-47A□10L□□	SDSG62A-4R7□	4.7	100	0.066	1.59	1.63
EB-62A□10L□□	SDSG62A-6R2□	6.2	100	0.074	1.49	1.53
EB-82A□10L□□	SDSG62A-8R2□	8.2	100	0.102	1.25	1.31
EB-100□10L□□	SDSG62A-100□	10	100	0.118	1.22	1.14
EB-120□10L□□	SDSG62A-120□	12	100	0.154	0.99	1.17
EB-150□10L□□	SDSG62A-150□	15	100	0.179	0.94	0.87
EB-180□10L□□	SDSG62A-180□	18	100	0.207	0.83	0.95
EB-220□10L□□	SDSG62A-220□	22	100	0.253	0.80	0.78
EB-270□10L□□	SDSG62A-270□	27	100	0.331	0.65	0.68
EB-330□10L□□	SDSG62A-330□	33	100	0.368	0.63	0.64
EB-390□10L□□	SDSG62A-390□	39	100	0.473	0.55	0.59
EB-10A□10L□□	SDSG62F-1R0□	1.0	100	0.014	3.48	4.31
EB-15A□10L□□	SDSG62F-1R5□	1.5	100	0.017	2.83	3.68
EB-20A□10L□□	SDSG62F-2R0□	2.0	100	0.021	2.44	3.54
EB-33A□10L□□	SDSG62F-3R3□	3.3	100	0.029	1.89	2.73
EB-43A□10L□□	SDSG62F-4R3□	4.3	100	0.037	1.65	2.46
EB-62A□10L□□	SDSG62F-6R2□	6.2	100	0.052	1.37	1.85
EB-100□10L□□	SDSG62F-100□	10	100	0.077	1.07	1.55
EB-120□10L□□	SDSG62F-120□	12	100	0.090	0.97	1.38
EB-150□10L□□	SDSG62F-150□	15	100	0.105	0.87	1.25
EB-180□10L□□	SDSG62F-180□	18	100	0.129	0.79	1.16
EB-220□10L□□	SDSG62F-220□	22	100	0.154	0.71	1.01
EB-270□10L□□	SDSG62F-270□	27	100	0.204	0.64	0.94
EB-330□10L□□	SDSG62F-330□	33	100	0.229	0.58	0.84
EB-390□10L□□	SDSG62F-390□	39	100	0.294	0.53	0.74
EB-470□10L□□	SDSG62F-470□	47	100	0.348	0.48	0.68
EB-560□10L□□	SDSG62F-560□	56	100	0.413	0.44	0.63
EB-680□10L□□	SDSG62F-680□	68	100	0.475	0.40	0.59
EB-820□10L□□	SDSG62F-820□	82	100	0.558	0.36	0.56

- Tested at 25°C.
- Temperature rise : 40°C Typ. at Irms
- Inductance drop : 30% Typ. at Isat
- Operating temperature : -55°C to +105°C
- Storage temperature : -40°C to +85°C

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● ELECTRICAL CHARACTERISTICS

New Part No.	Old Part No.	L ( $\mu$ H)	FREQ. (KHz/0.1V)	DCR ( $\Omega$ , Max.)	Isat (A, Max.)	Irms (A, Max.)
EB-20A□11L□□	SDSG63F-2R0□	2.0	100	0.019	3.00	3.51
EB-27A□11L□□	SDSG63F-2R7□	2.7	100	0.022	2.69	3.32
EB-33A□11L□□	SDSG63F-3R3□	3.3	100	0.026	2.57	2.99
EB-47A□11L□□	SDSG63F-4R7□	4.7	100	0.032	2.08	2.67
EB-62A□11L□□	SDSG63F-6R2□	6.2	100	0.035	1.84	2.56
EB-82A□11L□□	SDSG63F-8R2□	8.2	100	0.044	1.54	2.24
EB-100□11L□□	SDSG63F-100□	10	100	0.050	1.49	2.09
EB-120□11L□□	SDSG63F-120□	12	100	0.062	1.28	1.84
EB-150□11L□□	SDSG63F-150□	15	100	0.077	1.10	1.64
EB-180□11L□□	SDSG63F-180□	18	100	0.082	1.05	1.61
EB-220□11L□□	SDSG63F-220□	22	100	0.106	0.97	1.37
EB-270□11L□□	SDSG63F-270□	27	100	0.140	0.82	1.18
EB-330□11L□□	SDSG63F-330□	33	100	0.162	0.76	1.09
EB-390□11L□□	SDSG63F-390□	39	100	0.191	0.70	1.02
EB-470□11L□□	SDSG63F-470□	47	100	0.208	0.68	0.95
EB-560□11L□□	SDSG63F-560□	56	100	0.257	0.60	0.85
EB-680□11L□□	SDSG63F-680□	68	100	0.319	0.56	0.75
EB-820□11L□□	SDSG63F-820□	82	100	0.420	0.47	0.65
EB-101□11L□□	SDSG63F-101□	100	100	0.477	0.45	0.60

- Tested at 25°C.
- Temperature rise : 40°C Typ. at Irms
- Inductance drop : 30% Typ. at Isat
- Operating temperature : -55°C to +105°C
- Storage temperature : -40°C to +85°C

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