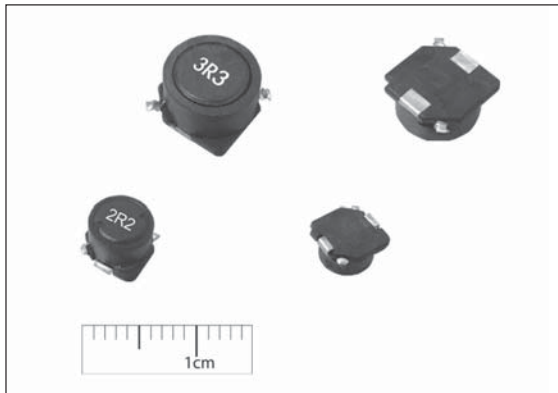


# SMD POWER INDUCTORS (EB-XXK SERIES)

**trio**

EB  
29



## ● PART NUMBERING

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

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

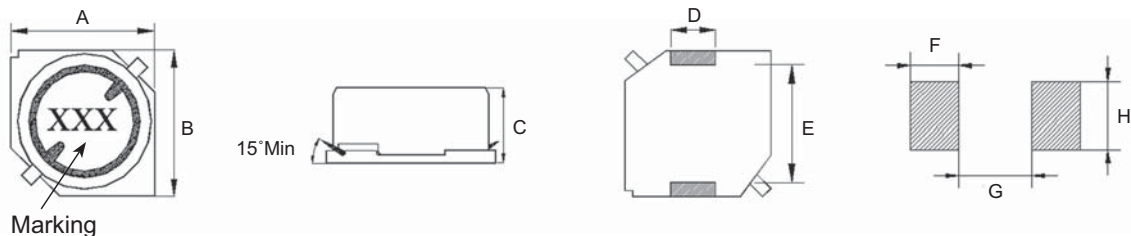
## ● FEATURES

- Magnetically shielded drum core inductors.
- Low resistance to keep power loss at a minimum.
- High current rating.

## ● 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
EB-11K	6.0±0.4	6.0±0.4	3.4 Max.	2.0 Typ.	4.0 Typ.	1.5 Typ.	4.0 Typ.	2.2 Typ.
EB-39K	7.3±0.5	7.3±0.5	2.8 Max.	2.0 Typ.	4.9 Typ.	1.5 Typ.	4.9 Typ.	2.2 Typ.
EB-13K	7.0±0.4	7.0±0.4	3.6 Max.	2.0 Typ.	4.9 Typ.	1.5 Typ.	4.9 Typ.	2.2 Typ.
EB-15K	7.0±0.4	7.0±0.4	4.9 Max.	2.0 Typ.	4.9 Typ.	1.5 Typ.	4.9 Typ.	2.2 Typ.
EB-18K	10.0±0.5	10.0±0.5	4.8 Max.	3.0 Typ.	5.8 Typ.	2.5 Typ.	5.6 Typ.	3.2 Typ.
EB-19K	10.0±0.5	10.0±0.5	5.8 Max.	3.0 Typ.	5.8 Typ.	2.5 Typ.	5.6 Typ.	3.2 Typ.
EB-24K	12.5±0.5	12.50±0.5	6.8 Max.	3.0 Typ.	8.6 Typ.	2.5 Typ.	8.6 Typ.	3.2 Typ.

• For packaging information, please refer to page P.99.

● ELECTRICAL CHARACTERISTICS

New Part No.	Old Part No.	L ( $\mu$ H)	FREQ. (KHz/0.25V)	DCR ( $\Omega$ , Max.)	Isat (A, Max.)	Irms (A, Max.)
EB-47A□11K□□	SDSG63C-4R7□	4.7	1	0.0341	1.60	2.50
EB-68A□11K□□	SDSG63C-6R8□	6.8	1	0.0425	1.50	2.20
EB-100□11K□□	SDSG63C-100□	10	1	0.0639	1.30	1.80
EB-150□11K□□	SDSG63C-150□	15	1	0.0894	1.00	1.40
EB-220□11K□□	SDSG63C-220□	22	1	0.1248	0.77	1.30
EB-330□11K□□	SDSG63C-330□	33	1	0.1776	0.69	1.10
EB-470□11K□□	SDSG63C-470□	47	1	0.2520	0.59	0.92
EB-680□11K□□	SDSG63C-680□	68	1	0.3480	0.50	0.78
EB-101□11K□□	SDSG63C-101□	100	1	0.5160	0.42	0.64
EB-33A□39K□□	SDSG72C-3R3□	3.3	1	0.0444	1.92	1.60
EB-47A□39K□□	SDSG72C-4R7□	4.7	1	0.0540	1.80	1.50
EB-68A□39K□□	SDSG72C-6R8□	6.8	1	0.0708	1.56	1.30
EB-100□39K□□	SDSG72C-100□	10	1	0.0996	1.32	1.10
EB-150□39K□□	SDSG72C-150□	15	1	0.1560	1.06	0.88
EB-220□39K□□	SDSG72C-220□	22	1	0.2160	0.90	0.75
EB-330□39K□□	SDSG72C-330□	33	1	0.2880	0.78	0.65
EB-470□39K□□	SDSG72C-470□	47	1	0.4080	0.65	0.54
EB-33A□13K□□	SDSG73C-3R3□	3.3	1	0.0276	2.28	1.90
EB-47A□13K□□	SDSG73C-4R7□	4.7	1	0.0432	2.04	1.70
EB-68A□13K□□	SDSG73C-6R8□	6.8	1	0.0492	1.92	1.60
EB-100□13K□□	SDSG73C-100□	10	1	0.0636	1.68	1.40
EB-150□13K□□	SDSG73C-150□	15	1	0.0900	1.32	1.10
EB-220□13K□□	SDSG73C-220□	22	1	0.1320	1.15	0.96
EB-330□13K□□	SDSG73C-330□	33	1	0.1920	0.90	0.75
EB-470□13K□□	SDSG73C-470□	47	1	0.2880	0.80	0.67
EB-680□13K□□	SDSG73C-680□	68	1	0.3720	0.71	0.59
EB-101□13K□□	SDSG73C-101□	100	1	0.5400	0.54	0.45
EB-151□13K□□	SDSG73C-151□	150	1	0.7800	0.44	0.37
EB-221□13K□□	SDSG73C-221□	220	1	1.2600	0.35	0.29
EB-331□13K□□	SDSG73C-331□	330	1	2.0040	0.26	0.22
EB-471□13K□□	SDSG73C-471□	470	1	2.4600	0.24	0.20
EB-681□13K□□	SDSG73C-681□	680	1	3.7800	0.19	0.16
EB-102□13K□□	SDSG73C-102□	1000	1	5.7360	0.16	0.13

- 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

## ● ELECTRICAL CHARACTERISTICS

New Part No.	Old Part No.	L ( $\mu$ H)	FREQ. (KHz/0.25V)	DCR ( $\Omega$ , Max.)	Isat (A, Max.)	Irms (A, Max.)
EB-33A□15K□□	SDSG75C-3R3□	3.3	1	0.0240	2.50	2.3
EB-47A□15K□□	SDSG75C-4R7□	4.7	1	0.0360	2.00	2.1
EB-68A□15K□□	SDSG75C-6R8□	6.8	1	0.0468	1.70	1.74
EB-100□15K□□	SDSG75C-100□	10	1	0.0552	1.30	1.78
EB-150□15K□□	SDSG75C-150□	15	1	0.0624	1.10	1.53
EB-220□15K□□	SDSG75C-220□	22	1	0.0732	0.90	1.34
EB-330□15K□□	SDSG75C-330□	33	1	0.1152	0.82	1.09
EB-470□15K□□	SDSG75C-470□	47	1	0.1500	0.75	0.92
EB-680□15K□□	SDSG75C-680□	68	1	0.2100	0.60	0.77
EB-101□15K□□	SDSG75C-101□	100	1	0.3000	0.50	0.65
EB-151□15K□□	SDSG75C-151□	150	1	0.4080	0.40	0.55
EB-221□15K□□	SDSG75C-221□	220	1	0.6240	0.33	0.45
EB-331□15K□□	SDSG75C-331□	330	1	0.8880	0.25	0.37
EB-471□15K□□	SDSG75C-471□	470	1	1.2600	0.22	0.31
EB-681□15K□□	SDSG75C-681□	680	1	1.7760	0.20	0.27
EB-102□15K□□	SDSG75C-102□	1000	1	2.7360	0.14	0.25
EB-33A□18K□□	SDSG104C-3R3□	3.3	1	0.020	4.90	3.70
EB-56A□18K□□	SDSG104C-5R6□	5.6	1	0.028	3.80	3.20
EB-100□18K□□	SDSG104C-100□	10	1	0.0437	3.00	2.50
EB-150□18K□□	SDSG104C-150□	15	1	0.0567	2.40	2.20
EB-220□18K□□	SDSG104C-220□	22	1	0.0710	2.10	1.90
EB-330□18K□□	SDSG104C-330□	33	1	0.0978	1.60	1.70
EB-470□18K□□	SDSG104C-470□	47	1	0.1200	1.40	1.50
EB-680□18K□□	SDSG104C-680□	68	1	0.1680	1.20	1.30
EB-101□18K□□	SDSG104C-101□	100	1	0.2400	1.00	1.10
EB-151□18K□□	SDSG104C-151□	150	1	0.4200	0.79	0.81
EB-221□18K□□	SDSG104C-221□	220	1	0.5640	0.65	0.70
EB-331□18K□□	SDSG104C-331□	330	1	0.8160	0.54	0.58
EB-471□18K□□	SDSG104C-471□	470	1	1.2360	0.47	0.47
EB-681□18K□□	SDSG104C-681□	680	1	1.9200	0.38	0.38
EB-102□18K□□	SDSG104C-102□	1000	1	3.3600	0.32	0.29
EB-152□18K□□	SDSG104C-152□	1500	1	4.0800	0.22	0.26

- 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

# SMD POWER INDUCTORS (EB-XXK SERIES)

**trio**

## ● ELECTRICAL CHARACTERISTICS

New Part No.	Old Part No.	L ( $\mu$ H)	FREQ. (KHz/0.25V)	DCR ( $\Omega$ , Max.)	Isat (A, Max.)	Irms (A, Max.)
EB-30A□19K□□	SDSG105C-3R0□	3.0	1	0.020	6.00	5.40
EB-47A□19K□□	SDSG105C-4R7□	4.7	1	0.028	5.00	4.00
EB-68A□19K□□	SDSG105C-6R8□	6.8	1	0.040	4.00	3.60
EB-100□19K□□	SDSG105C-100□	10	1	0.055	3.50	2.80
EB-150□19K□□	SDSG105C-150□	15	1	0.058	3.00	2.50
EB-220□19K□□	SDSG105C-220□	22	1	0.100	2.80	2.00
EB-330□19K□□	SDSG105C-330□	33	1	0.140	2.30	1.80
EB-470□19K□□	SDSG105C-470□	47	1	0.180	1.70	1.30
EB-680□19K□□	SDSG105C-680□	68	1	0.260	1.50	1.20
EB-101□19K□□	SDSG105C-101□	100	1	0.450	1.30	1.00
EB-20A□24K□□	SDSG125C-2R0□	2.0	1	0.0141	10.00	6.20
EB-42A□24K□□	SDSG125C-4R2□	4.2	1	0.0180	7.30	5.50
EB-70A□24K□□	SDSG125C-7R0□	7.0	1	0.0213	5.70	5.00
EB-100□24K□□	SDSG125C-100□	10	1	0.0243	5.00	4.80
EB-150□24K□□	SDSG125C-150□	15	1	0.0285	4.20	4.40
EB-220□24K□□	SDSG125C-220□	22	1	0.0380	3.50	3.80
EB-330□24K□□	SDSG125C-330□	33	1	0.0488	2.80	3.40
EB-470□24K□□	SDSG125C-470□	47	1	0.0694	2.40	2.80
EB-680□24K□□	SDSG125C-680□	68	1	0.0945	2.00	2.40
EB-101□24K□□	SDSG125C-101□	100	1	0.1476	1.60	1.90
EB-221□24K□□	SDSG125C-221□	220	1	0.2844	1.00	1.20

- 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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