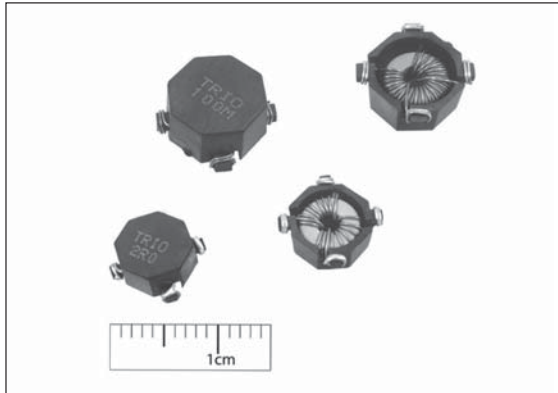


# SMD POWER INDUCTORS (EB-XXM SERIES)

**trio**



## ● PART NUMBERING

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

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

EB  
36

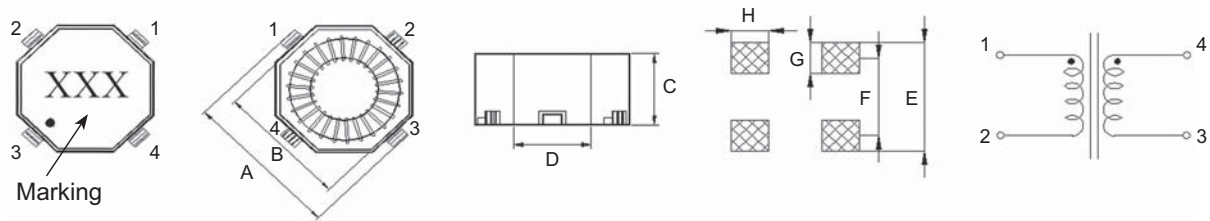
## ● FEATURES

- Single or coupled inductors or 1:1 transformers that provide isolation between two windings.
- Designed around high frequency and low loss material.
- 4 terminal mounting design.
- Supplied in tape and reel packaging.

## ● APPLICATIONS

- Computer and portable power devices
- LCD panels and DVD players
- Inductor: DC/DC converters
- Noise filtering and filter chokes
- Transformer: 1:1 300Vdc isolation, flyback, sepic

## ● CONFIGURATIONS & DIMENSIONS



Unit : mm

SERIES	A	B	C	D	E	F	G	H
EB-52M	11.43 Typ.	8.890 Typ.	5.97 Max.	3.68 Typ.	10.72 Typ.	7.04 Typ.	3.68 Typ.	3.05 Typ.
EB-56M	13.97 Typ.	11.43 Typ.	6.85 Max.	4.72 Typ.	12.50 Typ.	8.84 Typ.	4.06 Typ.	3.05 Typ.

• For packaging information, please refer to page P.101.

## ● ELECTRICAL CHARACTERISTICS

New Part No.	Old Part No.	Parallel ratings				Series ratings			
		L ( $\mu$ H)	DCR ( $\Omega$ ,Max.)	Isat (A,Max.)	Irms (A,Max.)	L ( $\mu$ H)	DCR ( $\Omega$ ,Max.)	Isat (A,Max.)	Irms (A,Max.)
EB-10A□52M□□	STBG0905-1R0□	1.26	0.0058	9.38	8.22	5.06	0.0233	4.69	4.11
EB-20A□52M□□	STBG0905-2R0□	1.98	0.009	7.50	6.74	7.90	0.035	3.75	3.37
EB-50A□52M□□	STBG0905-5R0□	5.06	0.021	4.69	4.34	20.22	0.084	2.34	2.17
EB-100□52M□□	STBG0905-100□	11.38	0.047	3.13	2.89	45.5	0.188	1.56	1.45
EB-150□52M□□	STBG0905-150□	15.48	0.054	2.68	2.69	61.94	0.218	1.34	1.35
EB-330□52M□□	STBG0905-330□	34.84	0.162	1.79	1.56	139.4	0.649	0.89	0.78
EB-680□52M□□	STBG0905-680□	66.44	0.342	1.29	1.07	265.8	1.367	0.65	0.54
EB-101□52M□□	STBG0905-101□	102.38	0.695	1.04	0.75	409.5	2.778	0.52	0.38
EB-10A□56M□□	STBG1206-1R0□	1.39	0.0052	11.25	9.23	5.57	0.0207	5.63	4.62
EB-20A□56M□□	STBG1206-2R0□	2.18	0.0063	9.00	8.38	8.70	0.0251	4.50	4.19
EB-50A□56M□□	STBG1206-5R0□	4.26	0.0085	6.43	7.21	17.05	0.0339	3.21	3.61
EB-100□56M□□	STBG1206-100□	10.53	0.020	4.09	4.67	42.11	0.081	2.05	2.33
EB-150□56M□□	STBG1206-150□	14.7	0.029	3.46	3.87	58.81	0.117	1.73	1.94
EB-330□56M□□	STBG1206-330□	34.8	0.071	2.25	2.49	139.2	0.283	1.13	1.25
EB-680□56M□□	STBG1206-680□	68.21	0.153	1.61	1.70	272.8	0.612	0.80	0.85
EB-101□56M□□	STBG1206-101□	100.57	0.235	1.32	1.37	402.3	0.939	0.66	0.69

- Tested at 25°C, 100 KHz, 0.25V.(Parallel : 1-2, 4-3 ; Series : 1, 2-3 ,4 )
- Temperature rise : 40°C Typ., at Irms
- Inductance drop : 30% Typ. at Isat
- Hi-pot rating : 300Vdc Min. from winding to winding
- Turn ratio : (1-2 : 4-3) = 1:1
- Operating temperature : -40°C to +85°C
- Storage temperature : -40°C to +85°C

EB  
37