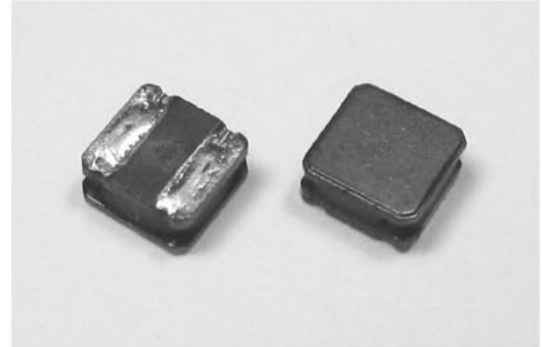


3. SSDB Series (Shielded Type)

Applications

- Watches, Toys Camera, Electronic Thermometers.
- Portable communication equipment.
- DC/DC converters, etc.
- Power supply for VTRs.
- Other various electronic appliances.



Features

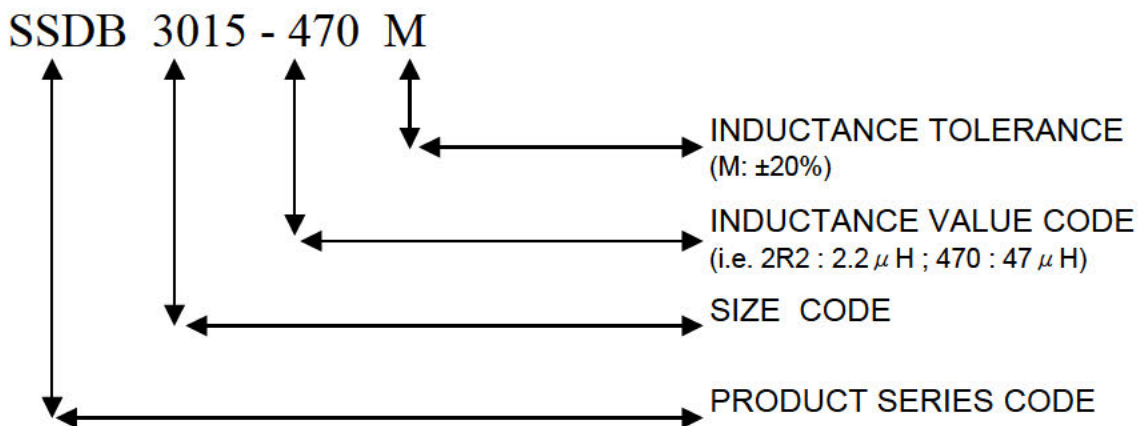
- Compact, low profile with low Rdc and large current.
- With magnetic shielded against radiation.
- Flat bottom surface allows reliable mounting onto the board.
- Available on tape and reel for auto surface mounting.

Inductance and Rated Current ranges

Part Series	Inductances range	Rated Current range
* SSDB3010	1.0~47 μ H	1.525~0.270A (Irms) ; 1.700~0.240A (Isat)
* SSDB3015	1.0~100 μ H	2.100~0.250A (Irms) ; 2.100~0.230A (Isat)

(Dimension data (Refer to Fig. 1))

Part Numbering System



3. SSDB Series (Shielded Type)

Dimensions (mm)

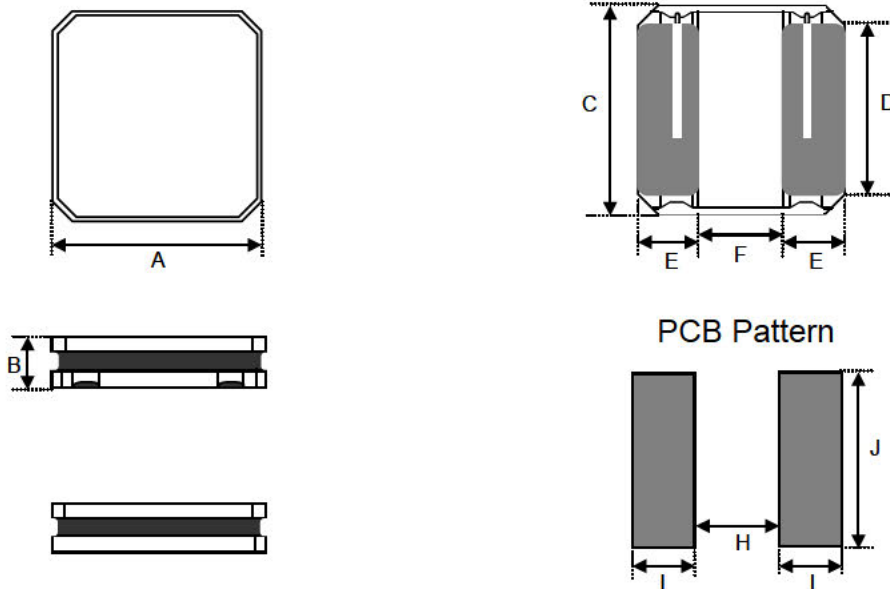


Fig. 1

Series	A	B (max.)	C	D (typ.)	E	F	H	I	J
SSDB3010	3.00±0.10	1.00	3.00±0.10	2.70	0.90±0.20	1.20±0.20	1.20	1.00	2.70
SSDB3015	3.00±0.10	1.50	3.00±0.10	2.70	0.90±0.20	1.20±0.20	1.20	1.00	2.70

Construction & Material:

1. Core: Ferrite core
2. Wire: H Class Enameled copper wire
3. Terminal: Ni / Cu / Ag alloy with Sn
4. Coating: Magnetic epoxy resin

3. SSDB Series (Shielded Type)

Electrical Characteristics

SSDB 3010 / 3015 TYPE

Inductance value code	L (µH)	DC Resistance (Ω)				SRF (MHz)		I _{rms} (A)				I _{sat} (A)			
		3010		3015		Min.		3010		3015		3010		3015	
		Typ.	Max.	Typ.	Max.	3010	3015	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
1R0M	1.0	0.065	0.078	0.040	0.048	180	145	1.700	1.525	2.350	2.100	1.950	1.700	2.350	2.100
1R5M	1.5	0.080	0.096	0.055	0.066	140	130	1.650	1.470	2.100	1.900	1.600	1.400	2.000	1.800
2R2M	2.2	0.095	0.114	0.060	0.072	100	90	1.450	1.270	1.800	1.600	1.450	1.250	1.650	1.480
3R3M	3.3	0.160	0.192	0.093	0.112	80	75	1.300	1.130	1.600	1.450	1.050	0.900	1.400	1.210
4R7M	4.7	0.190	0.228	0.113	0.136	60	65	1.100	0.925	1.400	1.250	0.950	0.850	1.200	1.080
5R6M	5.6	0.285	0.342	-	-	55	-	0.950	0.820	-	-	0.820	0.720	-	-
6R8M	6.8	0.300	0.360	0.176	0.211	50	50	0.850	0.710	1.100	0.900	0.760	0.660	1.050	0.900
100M	10	0.450	0.540	0.234	0.276	45	45	0.720	0.630	1.000	0.870	0.610	0.530	0.880	0.750
150M	15	0.740	0.888	0.352	0.422	35	33	0.560	0.475	0.800	0.650	0.480	0.420	0.680	0.580
220M	22	0.980	1.176	0.510	0.622	25	28	0.500	0.430	0.600	0.550	0.420	0.360	0.580	0.470
330M	33	1.550	1.860	0.799	0.959	24	22	0.415	0.345	0.500	0.450	0.340	0.280	0.460	0.390
470M	47	2.000	2.400	1.172	1.406	19	18	0.320	0.270	0.400	0.400	0.270	0.240	0.380	0.320
101M	100	-	-	2.433	2.920	-	11	-	-	0.290	0.250	-	-	0.270	0.230

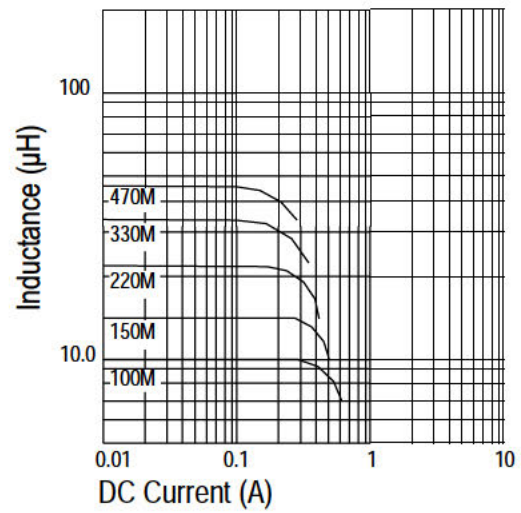
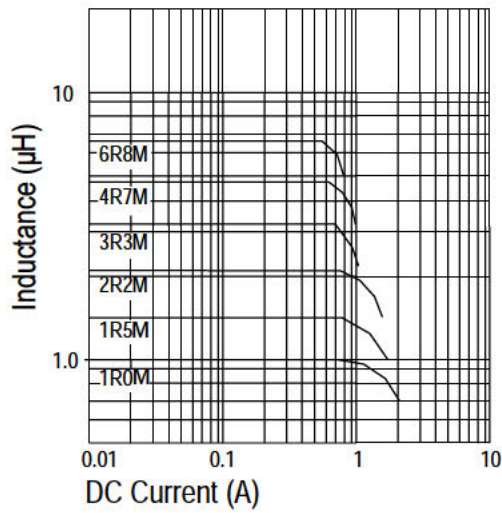
Notes:

1. Test Frequency : 1MHz
2. Test equipment :
 - L/Q : HP-4286A
 - SRF : HP-4291B, HP4287A
 - DC Resistance : HP-4286A, CH16502
- 3a). I_{rms}: base on temp. rise 40°C Typ.
- 3b). I_{sat}: base on ΔL/LOA = 30% Typ.
4. Operating temperature range : -40°C~+105°C (Including self-temperature rise)

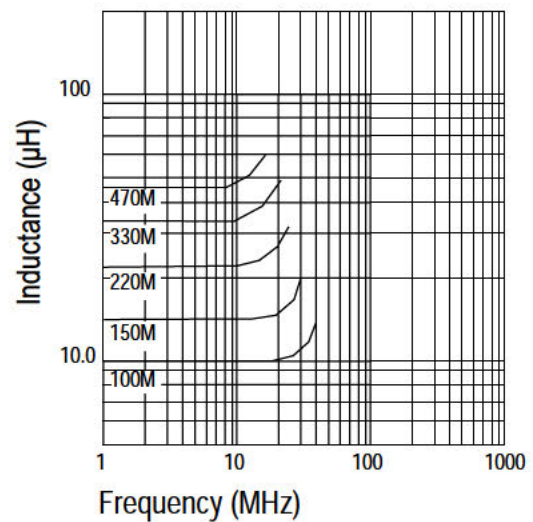
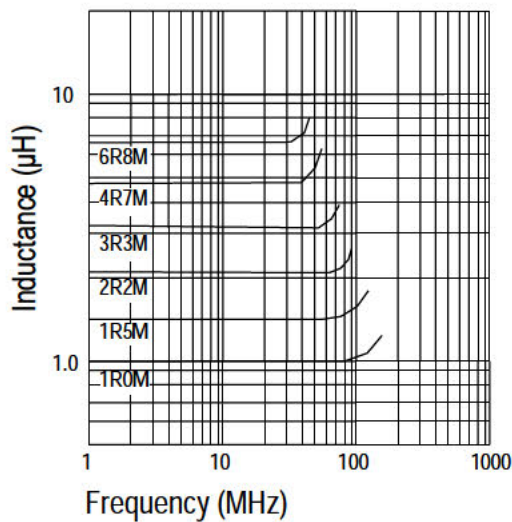
3. SSDB Series (Shielded Type)

Rating Curves (SSDB3010)

L vs Current



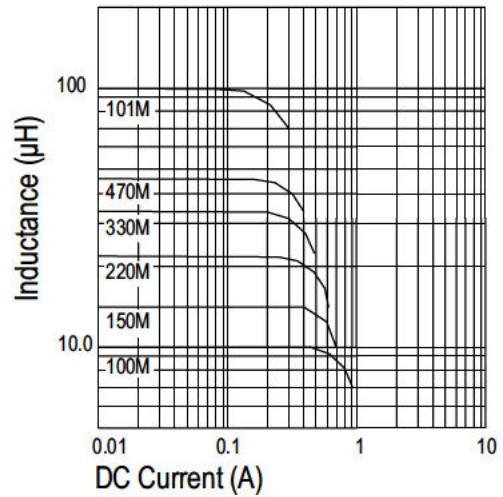
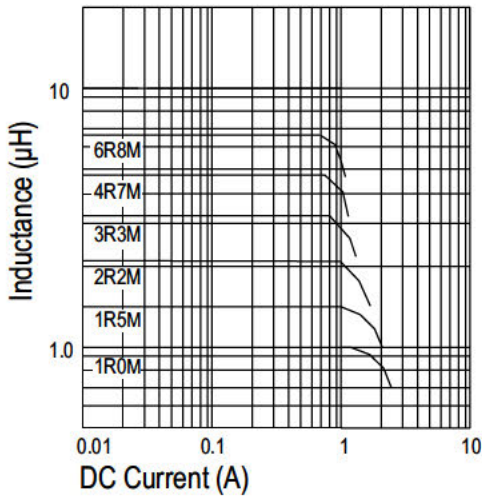
L vs Frequency



3. SSDB Series (Shielded Type)

Rating Curves (SSDB3015)

L vs Current



L vs Frequency

