

SSB1255, 1265, 1275 Series (Shielded Type)

Applications

- > Power supply for VTRs.
- > Personal & Notebook computers.
- > Smart Home Systems.
- > Other various electronic appliances.

Features

- > Compact, low profile with Rdc and large current.
- > With magnetic shielded against radiation.
- > Flat bottom surface allows reliable mounting onto the board.
- > High power, high saturation inductors.



Inductance and Rated Current ranges

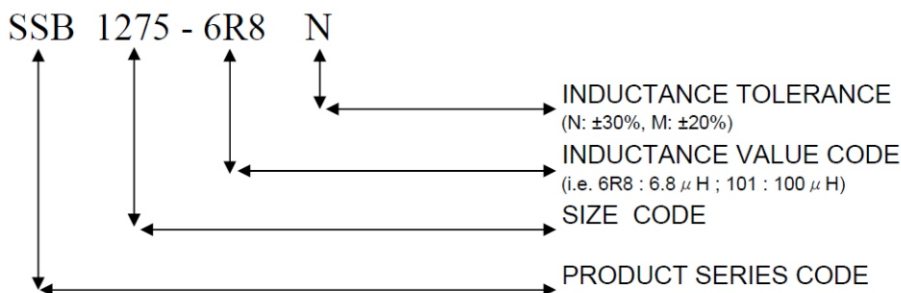
Part Series	Inductances range	Rated Current range
* SSB0628	4.7~100μH	2.50~0.64A (Irms) ; 1.60~0.42A (Isat)
* SSB0728	3.3~56μH	1.60~0.45A (Irms) ; 1.60~0.50A (Isat)
* SSB0730	3.3~100μH	1.80~0.35A (Irms) ; 1.80~0.35A (Isat)
* SSB0732	1.0~1000μH	2.40~0.20A (Irms) ; 2.20~0.13A (Isat)
* SSB0745	1.0~1000μH	5.50~0.14A (Irms) ; 5.00~0.13A (Isat)
* SSB1045	1.0~1500μH	12.00~0.40A (Irms) ; 7.80~0.22A (Isat)
* SSB1255	6.0~1500μH	4.90~0.48A (Irms) ; 3.60~0.29A (Isat)
* SSB1265	2.0~150μH	6.20~1.20A (Irms) ; 10.00~1.00A (Isat)
* SSB1275	1.2~220μH	8.20~1.30A (Irms) ; 13.00~1.30A (Isat)

(Dimension data (Refer to Fig. 1))

Characteristics

- Test Frequency : 1.0KHz 0.5V
- 1. Saturation Rated Current (I sat) : The current when the inductance becomes 30% lower than its nominal value.
- 2. Temperature Rated Current (I rms) : The actual current when the temperature of coil becomes to ΔT=40°C. (Ta=25°C)
- Operating temperature range : -40°C~+105°C.
- Test equipment :
 - L: HP4284A LCR meter.
 - DCR: Milli-ohm meter.
 - Electrical specifications at 25°C.

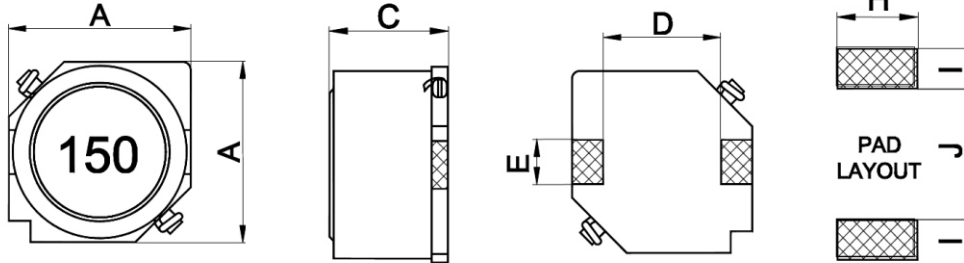
Part Numbering System



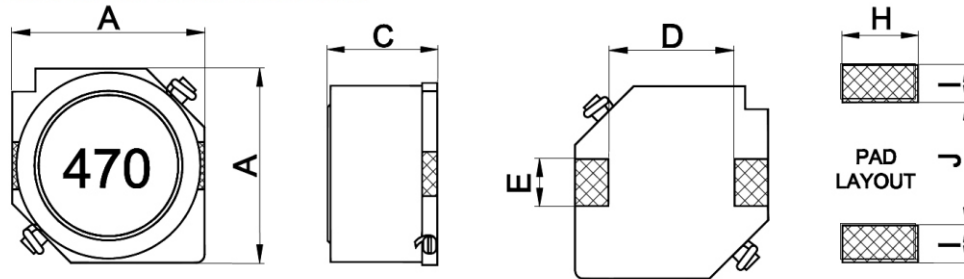
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Dimensions (mm)

SSB 0728 / 0730 / 0732 / 0745 / 1045



SSB 0628 / 1255 / 1265 / 1275



Series	A	C	D	E	H	I	J
SSB0628	6,00±0,20	2,80±0,20	4,00	2,00	2,20	1,50	4,00
SSB0728	7,00±0,20	2,80±0,20	4,00	2,00	2,20	1,50	4,00
SSB0730	7,00±0,20	3,00±0,20	4,00	2,00	2,20	1,50	4,00
SSB0732	7,00±0,20	3,20±0,20	4,00	2,00	2,20	1,50	4,00
SSB0745	7,00±0,20	4,50±0,30	4,00	2,00	2,20	1,50	4,00
SSB1045	10,1±0,30	4,50±0,30	6,00	3,00	3,20	2,50	5,60
SSB1255	12,50±0,30	5,50±0,35	8,60	3,00	3,20	2,50	8,60
SSB1265	12,50±0,30	6,50±0,35	8,60	3,00	3,20	2,50	8,60
SSB1275	12,50±0,30	7,50±0,35	8,60	3,00	3,20	2,50	8,60

SSB1255, 1265, 1275 Series (*Shielded Type*)

Electrical Characteristics
SSB1255, 1265, 1275 TYPE

Inductance value code	Tol.	L (μH)	DC Resistance (Ω) Max. ±20%			Rated DC Current (A) Max.					
						I rms			I sat		
			1255	1265	1275	1255	1265	1275	1255	1265	1275
1R2	N	1,2	-	-	6,9	-	-	8,20	-	-	13,00
2R0	N	2,0	-	11,7	-	-	6,20	-	-	10,00	-
2R7	N	2,7	-	-	9,4	-	-	7,00	-	-	10,00
3R3	N	3,3	-	-	10,0	-	-	6,80	-	-	9,50
3R9	N	3,9	-	-	10,4	-	-	6,70	-	-	9,00
4R2	N	4,2	-	15,0	-	-	5,50	-	-	7,30	-
5R6	N	5,6	-	-	11,6	-	-	6,30	-	-	7,80
6R0	N	6,0	16,4	-	-	4,90	-	-	3,60	-	-
6R8	N	6,8	-	-	13,1	-	-	5,90	-	-	7,20
7R0	M	7	-	17,7	-	-	5,00	-	-	5,70	-
100	M	10	21,5	20,2	15,6	4,30	4,80	5,40	3,40	5,00	5,50
150	M	15	25,9	23,7	18,4	3,90	4,40	5,00	2,80	4,20	4,70
220	M	22	33,8	31,6	26,3	3,40	3,80	4,00	2,30	3,50	4,00
330	M	33	41,5	40,6	39,5	3,10	3,40	3,40	1,90	2,80	3,20
390	M	39	-	-	44,0	-	-	3,20	-	-	3,00
470	M	47	61,8	57,8	52,8	2,50	2,80	3,00	1,60	2,40	2,70
560	M	56	75,0	75,0	67,0	2,30	2,50	2,60	1,45	2,20	2,30
680	M	68	83,2	78,7	77,8	2,20	2,40	2,40	1,30	2,00	2,00
101	M	100	117,0	123,0	125,0	1,80	1,90	1,90	1,10	1,60	1,90
121	M	120	-	185,0	-	-	1,50	-	-	1,30	-
151	M	150	190,0	273,0	175,0	1,40	1,20	1,60	0,88	1,00	1,60
221	M	220	270,0	-	258,0	1,20	-	1,30	0,72	-	1,30
331	M	330	410,0	-	-	1,00	-	-	0,59	-	-
471	M	470	520,0	-	-	0,88	-	-	0,49	-	-
681	M	680	760,0	-	-	0,73	-	-	0,43	-	-
102	M	1000	1120,0	-	-	0,60	-	-	0,34	-	-
152	M	1500	1730,0	-	-	0,48	-	-	0,29	-	-

Notes:

Test Frequency: 1,0KHz 0,5V

1. Saturation Rated Current (I sat) : The current when the inductance becomes 30% lower than its nominal value
2. Temperature Rated Current (I rms) : The actual current when the temperature of coil becomes to $\Delta T=40^{\circ}\text{C}$. ($T_a=25^{\circ}\text{C}$)
3. Operating temperature range: $-40^{\circ}\text{C}\sim+105^{\circ}\text{C}$