



SMTBW104/105 SERIES

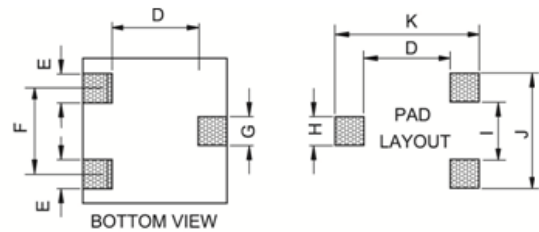
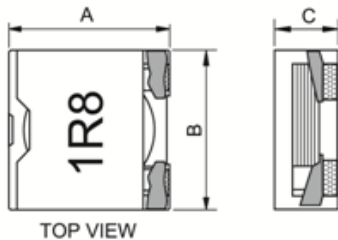
SMT FLAT WIRE COLLS

Applications :

- Notebook /Desktop/server applications.
- Battery Power equipment
- DC/DC converters,
- Power supplier, etc



Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	B Max.	C Max.	D	E	F	G	H	I	J	K
SMTBW104	10.4	10.4	4.5	6.7	2.6	5.5	1.4	2.0	2.5	8.5	11.0
SMTBW105	10.4	10.4	5.6	6.7	2.6	5.5	1.4	2.0	2.5	8.5	11.0

Features :

- Clip Plated Type, Low Profile.
- Low DCR.
- High power, High saturation inductors.
- Ideal inductors for DC-DC conversion.
- Available on tape and reel for auto surface mounting.

Characteristics :

- Rated Current: It is either the inductance is 20%("N" is 30%) lower is than its initial value in DC. saturation characteristics or temperature raise becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$), whichever lower.
- Operating temperature: -40°C to 105°C

Product identification :

SMT BW105 S - 1R8 M

(1) (2) (3) (4)

(1)Type :Surface Mountable Type .

(2)Style :Flat wire with **ER** Core and **S** or **H** is used for a hight current type instead of BW105.

(3)Inductance : **1R8** for **1.8** uH.

(4)Inductance tolerance : "N": $\pm 30\%$ "M": $\pm 20\%$.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR Meter or equivalent.
- DCR measured on Chroma 16502 micro- Ω meter or equivalent.
- Electrical specifications at 25°C .


● SMTBW104/105 series

Part No.	Induc L (μH)	DC Resistance (mΩ)Max.					Rated Current (A)Max.				
		104L	104S	105L	105S	105H	104L	104S	105L	105S	105H
R15	0.15					1.7					19.0
R22	0.22		2.2		1.7			18.0		19.0	
R30	0.30					2.4					17.7
R36	0.36	2.2		1.7			18.0		19.0		
R45	0.45		3.7		2.4			13.4		17.7	
R50	0.50					4.1					13.0
R80	0.80	3.7	5.9	2.4	4.1	5.3	13.4	10.2	16.0	13.0	11.2
1R2	1.2					7.5					9.0
1R3	1.3		11.8		5.3			7.3		11.2	
1R4	1.4	5.9		4.1			10.2		12.0		
1R5	1.5					10.5					7.8
1R8	1.8		18.6		7.5			5.4		9.0	
2R0	2.0					12.4					7.4
2R2	2.2	11.8		5.3			7.3		9.6		
2R5	2.5		21.8		10.5			5.0		7.8	
3R0	3.0					23.8					4.9
3R2	3.2	18.6		7.5	12.4		5.4		7.8	7.4	
4R0	4.0				18.0					6.2	
4R3	4.3	21.8		10.5			5.0		6.8		
5R0	5.0				23.8					4.9	
5R7	5.7			12.4					5.8		
7R2	7.2			18.0					5.3		
8R8	8.8			23.8					4.8		

· Note:

· Measuring Frequency :
100KHz , 1V

· Tolerance of Inductance :

SMTBW104L	0.36uH ± 30%(N) ;	0.80uH-4.3uH ± 20%(M).
SMTBW104S	0.22uH ± 30%(N) ;	0.45uH-2.5uH ± 20%(M).
SMTBW105L	0.36uH ± 30%(N) ;	0.80uH-8.8uH ± 20%(M).
SMTBW105S	0.22uH ± 30%(N) ;	0.45uH-5.0uH ± 20%(M).
SMTBW105H	0.15uH , 0.3± 30%(N) ;	0.50uH-3.0uH ± 20%(M).

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.