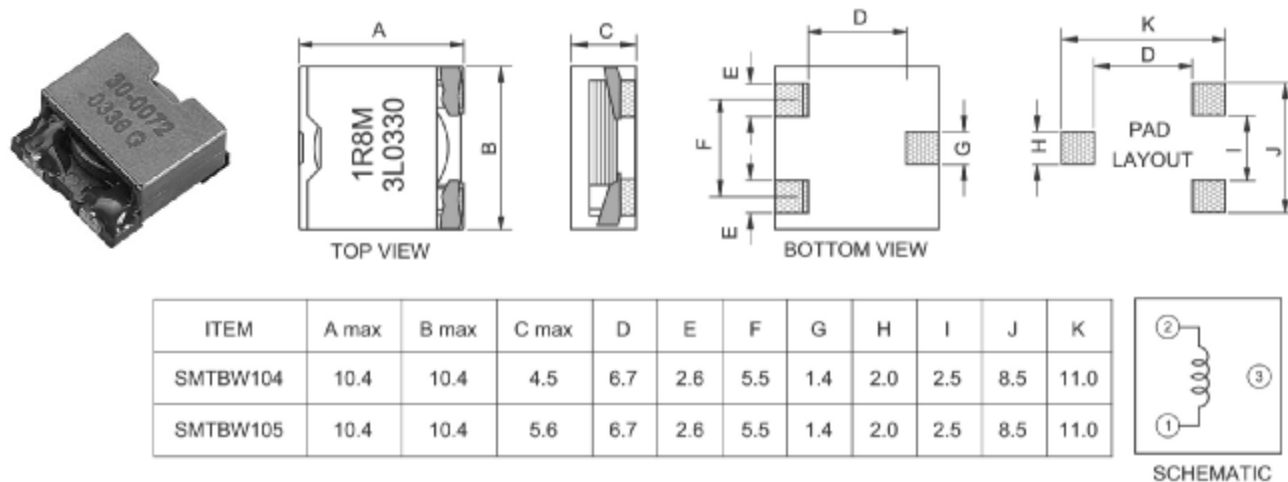


**Shape and Size : (Dimensions in mm)**

**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.

**Ordering Information :**

**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 big current type instead of BW105
- (3) Inductance : 1R8 for 1.8 uH.
- (4) Inductance tolerance :  
"N": ±30% "M": ±20%;

**Inductance and rated current ranges :**

- SMTBW104L 0.36~4.3uH 18.0~5.0A
- SMTBW104S 0.22~2.5uH 18.0~5.0A
- SMTBW105L 0.36~8.8uH 19.0~4.8A
- SMTBW105S 0.22~5.0uH 19.0~4.9A
- SMTBW105H 0.15~3.0uH 19.0~4.9A

**Characteristics :**

- Rated DC Current: It is either the inductance is 20%("N" is 30%) lower than its initial value in D.C. saturation characteristics or temperature raise becomes  $\Delta T=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ), whichever is lower.
- Operating temperature:  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$

**Test equipments:**

L : Agilent 4284A LCR meter @100KHz ,1V

DCR : Milli-ohm meter.

Electrical specifications at  $25^{\circ}\text{C}$ .

**Applications:**

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

Part No.	L ( $\mu$ H)	DC Resistance ( mOHM )Max.					Rate DC Curreny ( Amp )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	0.5					4.1					13.0
R80	0.8	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 0.36 $\mu$ H  $\pm$  30%(N) ; 0.8 $\mu$ H-4.3 $\mu$ H  $\pm$  20% (M).

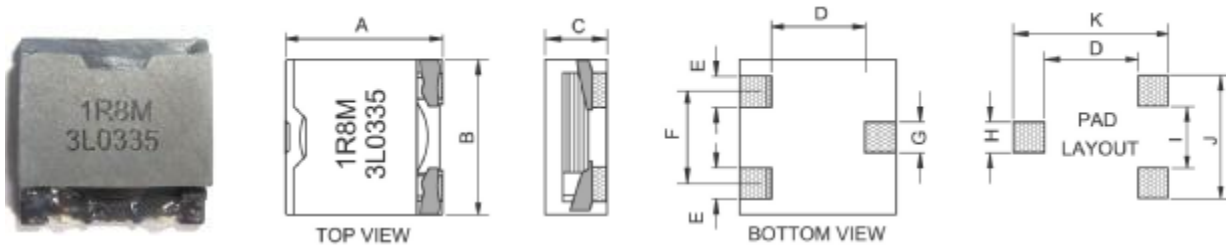
 SMTBW104S 0.22 $\mu$ H  $\pm$  30%(N) ; 0.45 $\mu$ H-2.5 $\mu$ H  $\pm$  20%(M).

 SMTBW105L 0.36 $\mu$ H  $\pm$  30%(N) ; 0.8 $\mu$ H-8.8 $\mu$ H  $\pm$  20%(M).

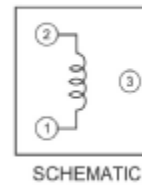
 SMTBW105S 0.22 $\mu$ H  $\pm$  30%(N) ; 0.45 $\mu$ H-5.0 $\mu$ H  $\pm$  20%(M).

 SMTBW105H 0.15 $\mu$ H , 0.3 $\pm$  30%(N) ; 0.5 $\mu$ H-3.0 $\mu$ H  $\pm$  20%(M).

**Shape and Size : (Dimensions in mm)**



ITEM	A max	B max	C max	D	E	F	G	H	I	J	K
SMTBW125	12.9	12.9	5.7	8.2	2.6	7.0	2.5	3.0	4.0	10.0	13.5
SMTBW134	13.9	13.9	5.0	9.6	2.6	7.2	2.5	2.6	4.4	10.0	15.0



**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.

**Ordering Information :**

**SMT BW125 U - 1R8 M**

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

- (1)Type : Surface Mountable Type .
- (2)Style : Flat wire with ER Core and H or U is used for a big current type instead of BW125
- (3)Inductance : 1R8 for 1.8 uH.
- (4)Inductance tolerance :  
"N":±30% "M": ±20%;

**Inductance and rated current ranges :**

- SMTBW125 1.5~10.0uH 14.0~5.0A
- SMTBW125H 1.0~7.2uH 16.5~7.6A
- SMTBW125U 0.35~5.6uH 18.5~7.6A
- SMTBW134 0.4~8.0uH 18.5~6.5A
- SMTBW134H 0.3~6.0uH 18.5~6.5A

**Characteristics :**

- Rated DC Current: It is either the inductance is 20%("N" is 30%) lower than its initial value in D.C. saturation characteristics or temperature raise becomes  $\Delta T=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ), whichever is lower.
- Operating temperature:-40°C to 80°C

**Test equipments:**

L : Agilent 4284A LCR meter @100KHz ,100mV

DCR : Milli-ohm meter.

Electrical specifications at 25°C.

**Applications:**

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

Part No.	L ( $\mu$ H)	DC Resistance ( mOHM )Max.					Rate DC Current ( Amp )Max.				
		125	125H	125U	134	134H	125	125H	125U	134	134H
R30	0.3					1.90					18.5
R35	0.35			1.8					18.5		
R40	0.4				1.9					18.5	
R66	0.66					2.5					17.0
R80	0.8			2.5					16.5		
R90	0.9				2.5					17.0	
<b>1R0</b>	<b>1.0</b>		<b>2.5</b>					<b>16.5</b>			
1R2	1.2					3.7					15.0
1R4	1.4			3.4					15.5		
1R5	1.5	2.5						14.0			
1R6	1.6				3.7					15.0	
1R8	1.8		3.4			6.6		15.3			10.5
2R2	2.2			5.4					12.5		
2R5	2.5	3.4			6.6		10.0			10.5	
2R7	2.7					10.8					8.0
2R8	2.8		5.4					12.3			
3R2	3.2			8.0					9.9		
3R6	3.6				10.8	12.0				8.0	7.5
4R0	4.0	8.0	8.0				8.3	9.9			
4R3	4.3			11.4					8.2		
4R8	4.8				12.0	16.3				7.5	7.0
5R6	5.6		11.4	13.5				8.2	7.6		
6R0	6.0	8.0				18.4	6.7				6.5
6R4	6.4				16.3					7.0	
7R2	7.2		13.5					7.6			
8R0	8.0				18.4					6.5	
8R2	8.2	11.4					5.8				
<b>100</b>	<b>10.0</b>	<b>13.5</b>					<b>5.0</b>				

• **Note**

• **Measuring Frequency** : 100KHZ , 100mV

• **Tolerance of Inductance** :

SMTBW125  $\pm 20\%$ (M); SMTBW125(H)  $\pm 20\%$  (M)

SMTBW125U 0.35uH,0.8uH  $\pm 30\%$  (N) ; 1.4uH-5.6uH $\pm 20\%$ (M)

SMTBW134 0.4uH $\pm 30\%$  (N); 0.9uH-8.0uH $\pm 20\%$ (M)

SMTBW134H 0.3uH,0.66uH  $\pm 30\%$  (N); 1.2uH-6.0uH $\pm 20\%$ (M)