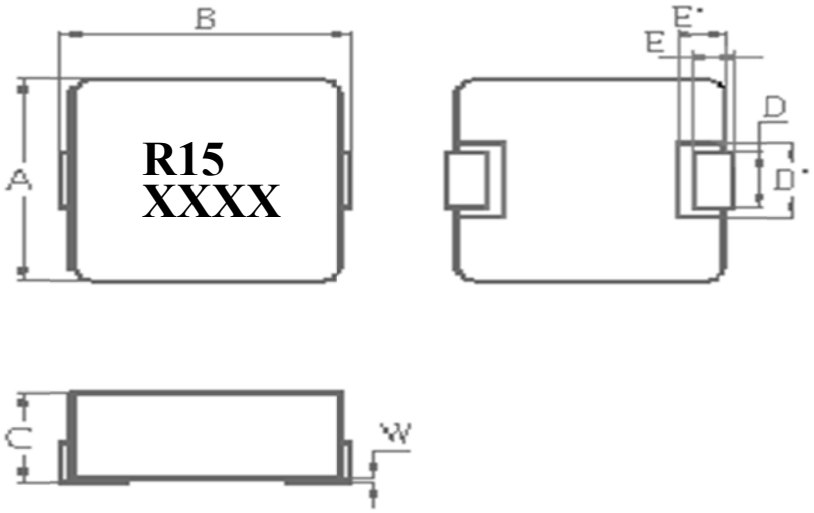
SMD Alloy Molding Power Inductor EM-1SV Series (100703)

1. CONFIGURATIONS & DIMENSIONS

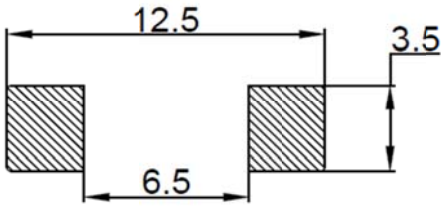


Code	Dimensions(mm)	
	R15	R18
A:	7.2±0.3	
B:	11.5MAX	
C:	2.5MAX	2.8MAX
E:	2.0±0.5	
E':	2.6±0.1	
D :	3.0±0.5	
D':	4.5±0.2	
W:	0.15+0	

XX -XXX X XX X XX – XX
- Customer name code / Internal serial No.
- Material code
- Dimension code
- Tolerance code
- Characteristic code
- Series code

TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%



SUGGEST PCB PATTERN

2. SPECIFICATIONS

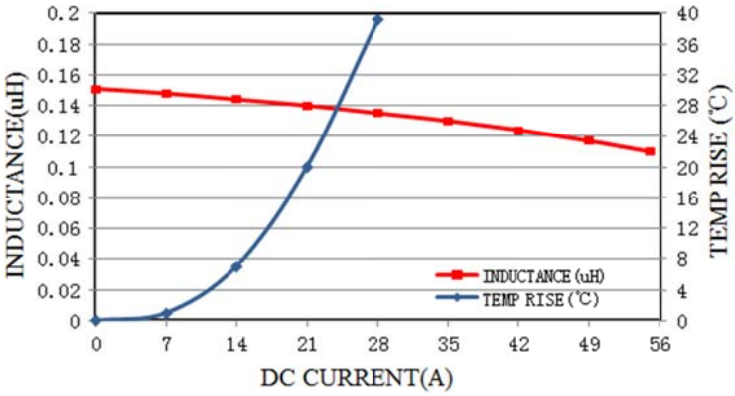
Part Number	Inductance L0(uH)± 20%@0A	Irms(A) typ	Isat(A) typ	DCR(mΩ) @25℃
EM-15BM1SV01	0.15	28	55	1.3±7%
EM-18BM1SV01	0.18	34	42	0.88±7%

Note:

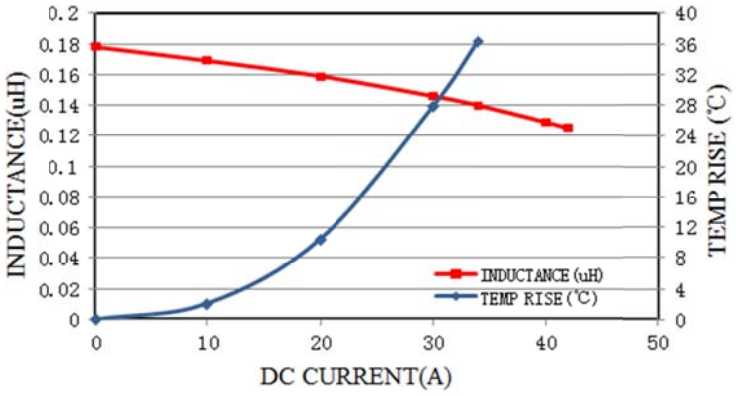
1. Test frequency: L: 100 KHz /1.0v.
2. All test data referenced to 25℃ ambient.
3. Temperature Rise Current: △T 40℃ approximately at Irms.
4. Saturation Rated Current: Inductance drop approximately 30% at Isat.
5. Storage temp.: -40℃ ~ 85℃.
6. Storage R.H: 20% ~ 75%.
7. Operating temp.: -55℃~ +125℃.
8. Special inquiries besides the above common used types can be met on your requirement.

3. DC Bias Characteristics (Typical)

EM-15BM1SV01

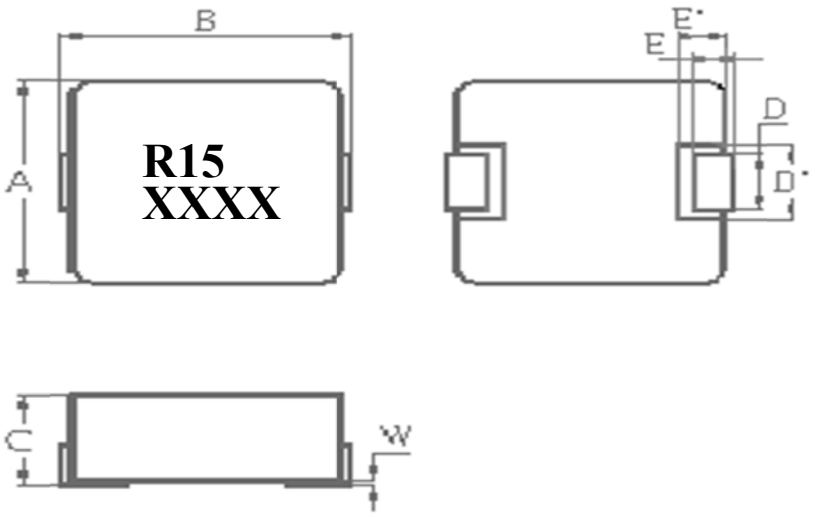


EM-18BM1SV01

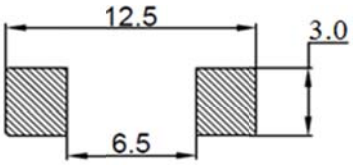


SMD Alloy Molding Power Inductor EM-66V Series (100704)

1. CONFIGURATIONS & DIMENSIONS

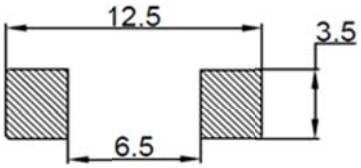


Code	Dimensions(mm)				
	R15/R22/R27/R33	R18/R20	R21	R40	1R0
A:	7.2±0.3				
B:	11.2±0.3				
C:	4.0MAX				
E:	2.0±0.5				
E':	2.6±0.1				
D :	3.0±0.5	2.9±0.3	3.0±0.3	2.5±0.5	1.7±0.3
D':	4.5±0.2				
W:	0.15+0				



SUGGEST PCB PATTERN

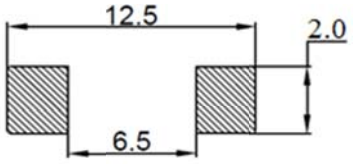
XX -XXX X XX X XX – XX
- Customer name code / Internal serial No.
- Material code
- Dimension code
- Tolerance code
- Characteristic code
- Series code



SUGGEST PCB PATTERN

TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%



SUGGEST PCB PATTERN

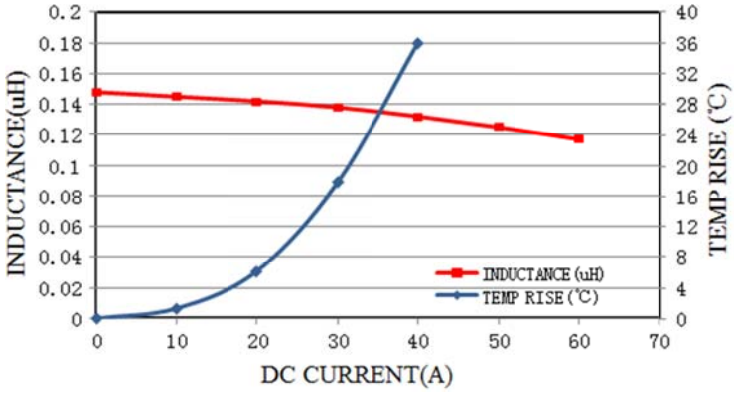
2. SPECIFICATIONS

Part Number	Inductance L0(uH)± 20%@0A	Irms(A) typ	Isat(A) typ	DCR(mΩ) @25℃
EM-15BM66V03	0.15	40	70	0.68±5%
EM-18BM66V01	0.18	40	50	0.8max
EM-20BM66V01	0.20	40	50	0.8max
EM-21BM66V01	0.21	35	58	0.8±5%
EM-22BM66V07	0.22	33	65	1.04±5%
EM-27BM66V01	0.27	25.5	65	1.7±5%
EM-33BM66V02	0.33	24.5	60	1.95±5%
EM-40BM66V01	0.40	25	36	2.2max
EM-10AM66V01	1.00	15	28	4.0±10%

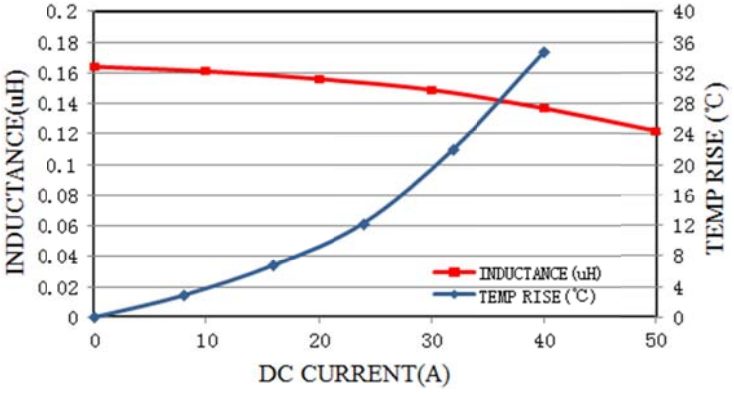
Note:
1. Test frequency: L: 100 KHz /1.0v.
2. All test data referenced to 25℃ ambient.
3. Temperature Rise Current: △T 40℃ approximately at Irms.
4. Saturation Rated Current: Inductance drop approximately 30% at Isat.
5. Storage temp.: -40℃ ~ 85℃.
6. Storage R.H: 20% ~ 75%.
7. Operating temp.: -55℃~ +125℃.
8. Special inquiries besides the above common used types can be met on your requirement.

3. DC Bias Characteristics (Typical)

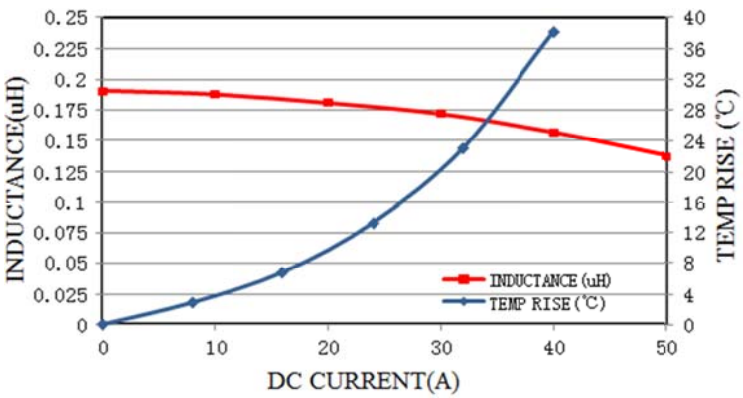
EM-15BM66V03



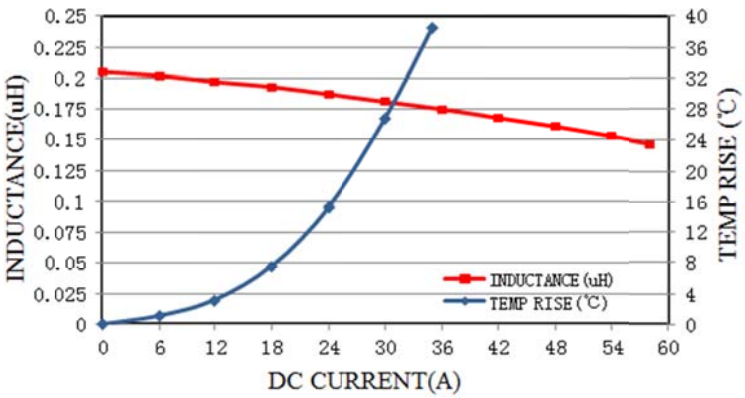
EM-18BM66V01



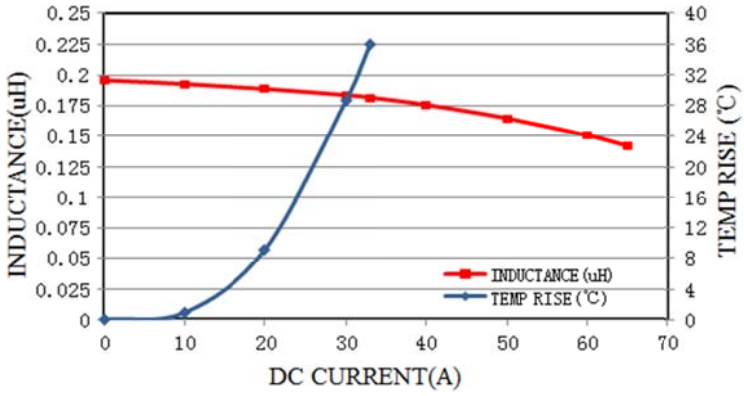
EM-20BM66V01



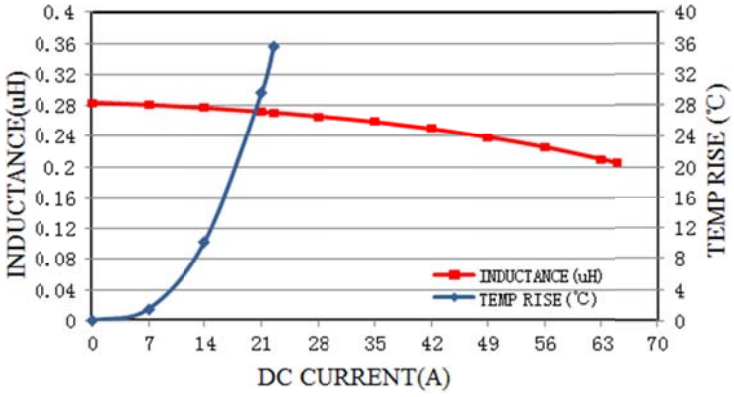
EM-21BM66V01



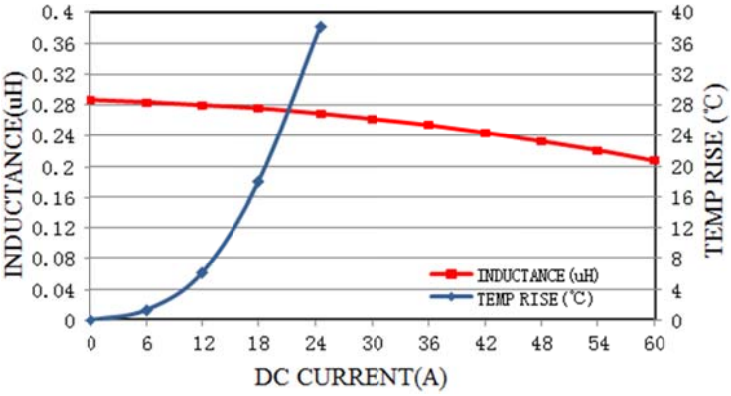
EM-22BM66V07



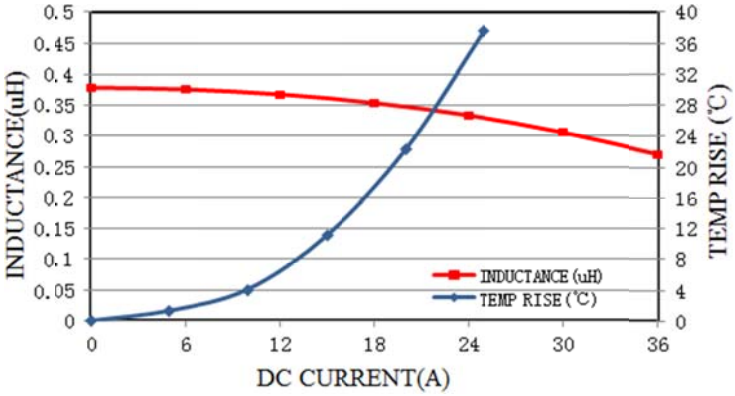
EM-27BM660V01



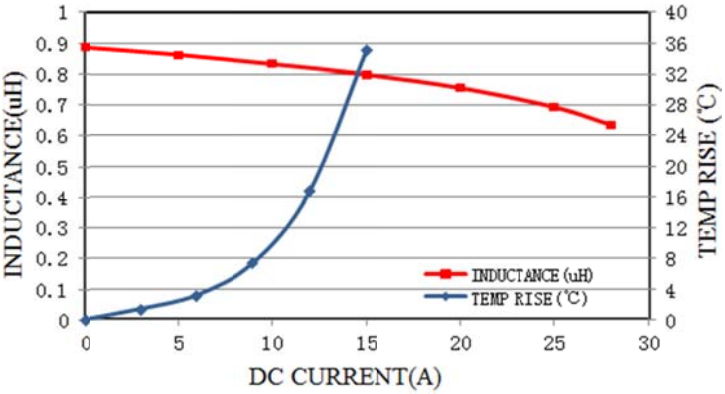
EM-33BM66V02



EM-40BM66V01

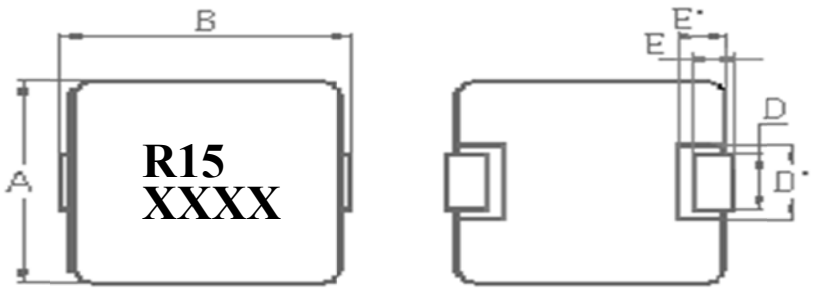


EM-10AM66V01



SMD Alloy Molding Power Inductor EM-51V Series (100705)

1. CONFIGURATIONS & DIMENSIONS



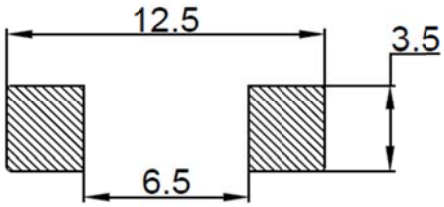
XX -XXX X XX X XX – XX

- Customer name code / Internal serial No.
- Material code
- Dimension code
- Tolerance code
- Characteristic code
- Series code

TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%

Code	Dimensions(mm)
A:	7.2±0.3
B:	11.2±0.3
C:	4.8±0.2
E:	2.0±0.5
E':	2.6±0.1
D :	3.0±0.5
D':	4.5±0.2
W:	0.15+0



SUGGEST PCB PATTERN

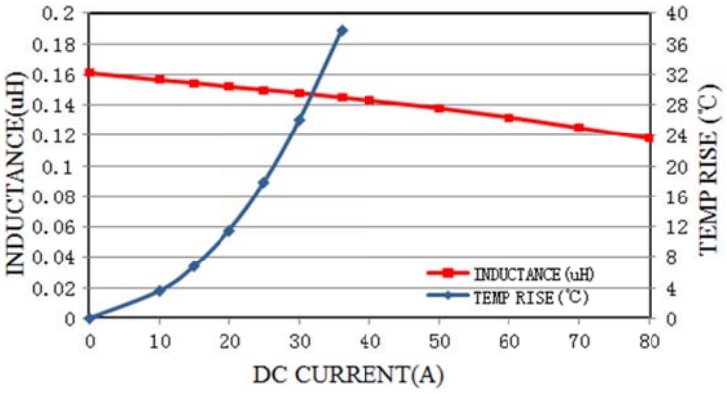
2. SPECIFICATIONS

Part Number	Inductance L0(uH)± 20%@0A	Irms(A) typ	Isat(A) typ	DCR(mΩ) @25℃
EM-15BM51V06	0.15	36	80	0.82±10%
EM-18BM51V01	0.18	36	100	0.82±10%
EM-20BM51V01	0.20	40	40	0.55±10%
EM-22BM51V08	0.22	36	80	0.82±7%
EM-27BM51V01	0.27	36	60	0.82±5%
EM-30BM51V03	0.30	36	55	0.82±10%
EM-33BM51V01	0.33	36	40	0.82±10%
EM-36BM51V01	0.36	32	60	1.1max
EM-47BM51V01	0.47	30	40	1.25±10%
EM-10AM51V01	1.00	25	32	1.8max

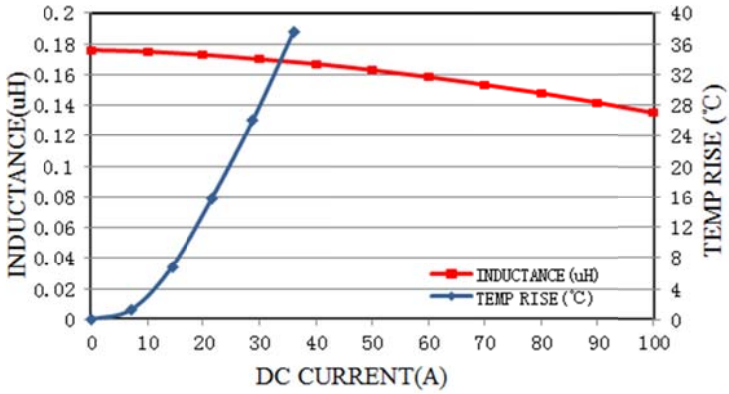
Note:
1. Test frequency: L: 100 KHz /1.0v.
2. All test data referenced to 25℃ ambient.
3. Temperature Rise Current: △T 40℃ approximately at Irms.
4. Saturation Rated Current: Inductance drop approximately 30% at Isat.
5. Storage temp.: -40℃ ~ 85℃.
6. Storage R.H: 20% ~ 75%.
7. Operating temp.: -55℃~ +125℃.
8. Special inquiries besides the above common used types can be met on your requirement.

3. DC Bias Characteristics (Typical)

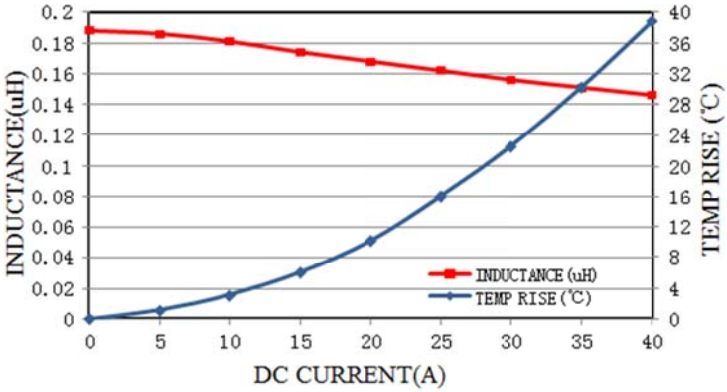
EM-15BM51V06



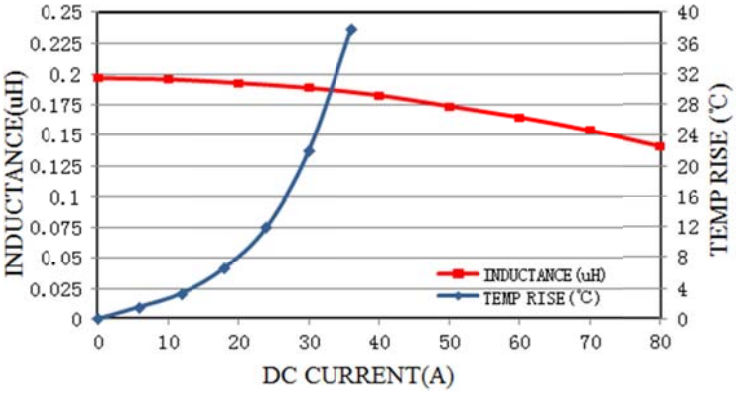
EM-18BM51V01



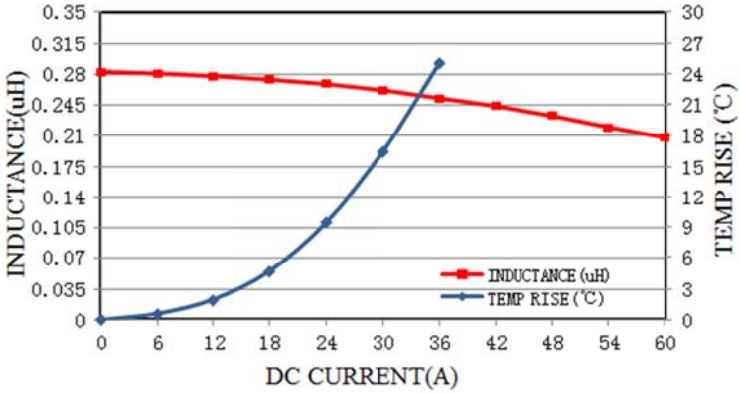
EM-20BM51V01



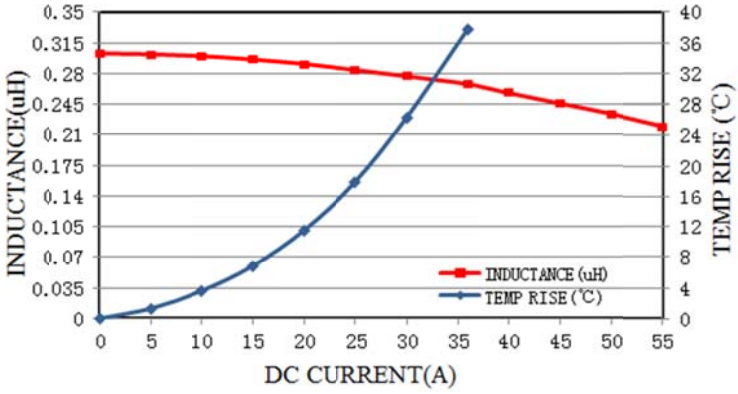
EM-22BM51V08



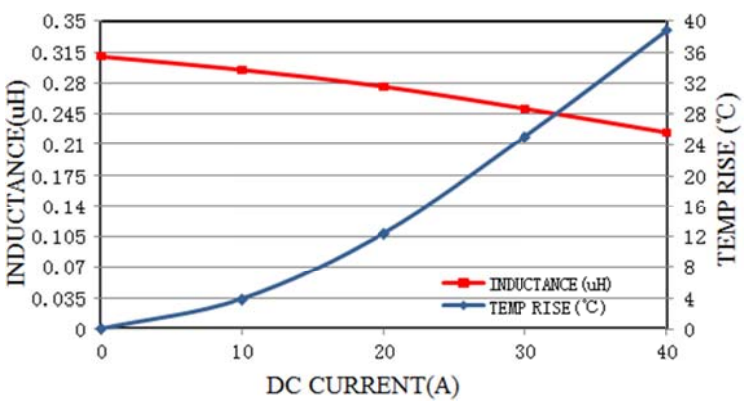
EM-27BM51V01



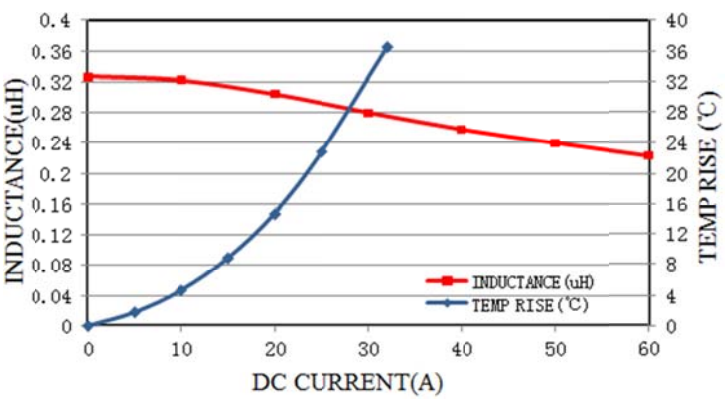
EM-30BM51V03



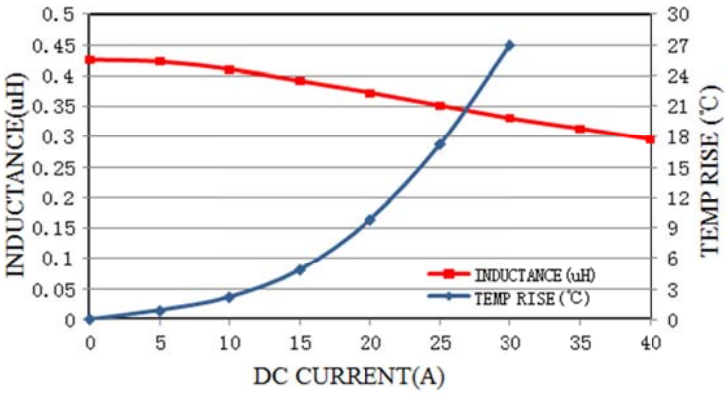
EM-33BM51V01



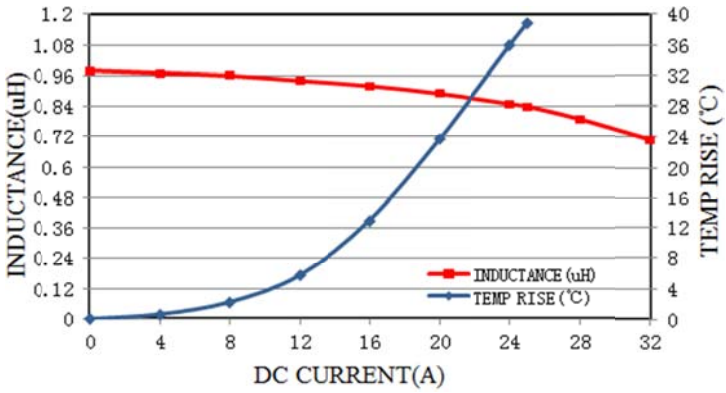
EM-36BM51V01



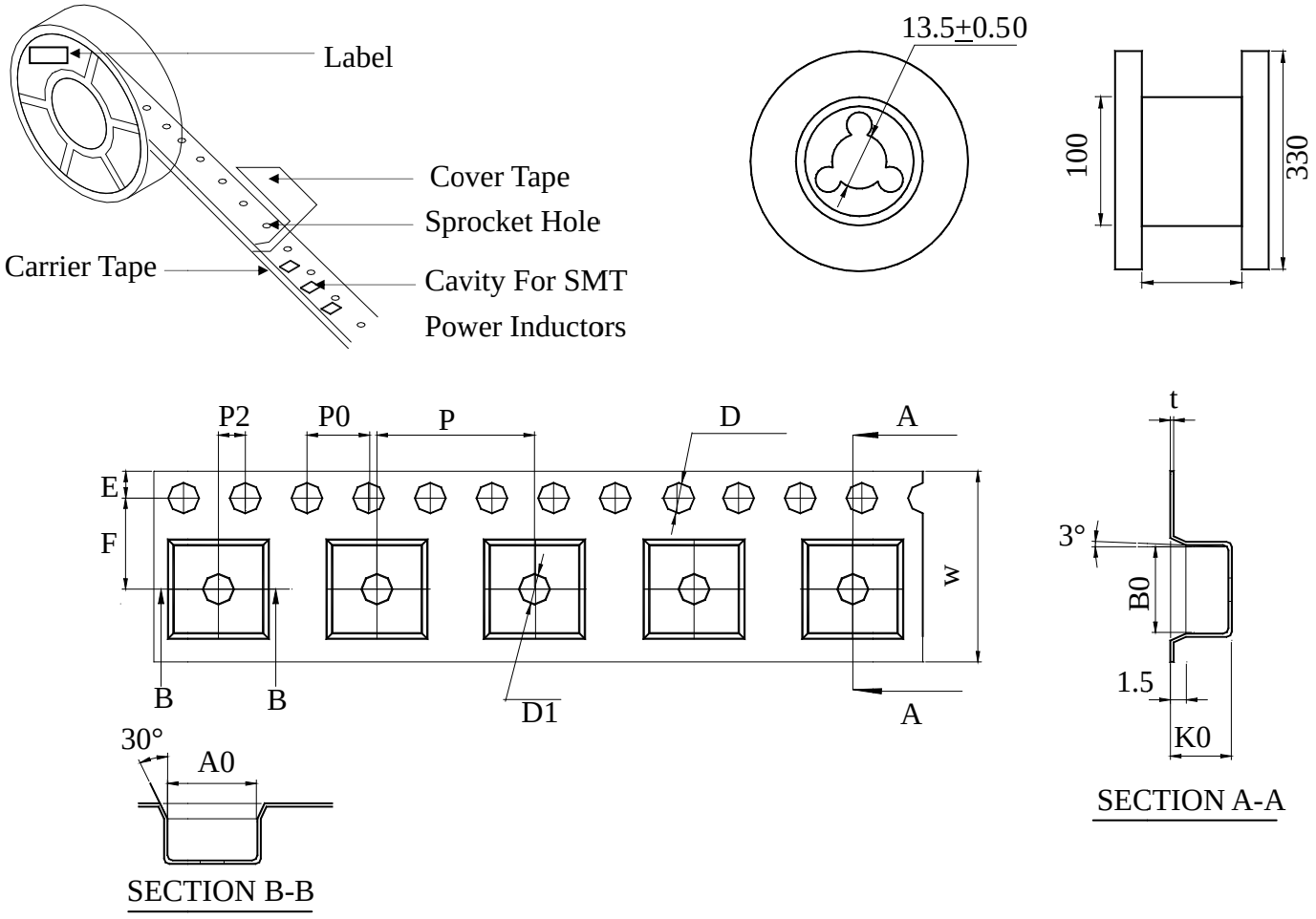
EM-47BM51V01



EM-10AM51V01



PACKAGING SPECIFICATION FOR SMD POWER INDUCTORS (unit: mm)



	W	P	E	F	A0	B0	K0	t
100703/ EM-1SV	24.0+0.10/-0.30	16.0±0.10	1.75±0.10	11.50±0.10	7.9±0.10	11.90±0.10	2.8±0.10	0.35±0.05
100704/ EM-66V	24.0+0.10/-0.30	12.0±0.10	1.75±0.10	11.50±0.10	7.5±0.10	12.0±0.10	4.4±0.10	0.35±0.05
100705/ EM-51V	24.0+0.10/-0.30	12.0±0.10	1.75±0.10	11.50±0.10	7.5±0.10	12.0±0.10	5.4±0.10	0.5±0.05

	Chip / Reel
100703/EM-1SV	1000 pcs
100704/EM-66V	1000 pcs
100705/EM-51V	1000pcs