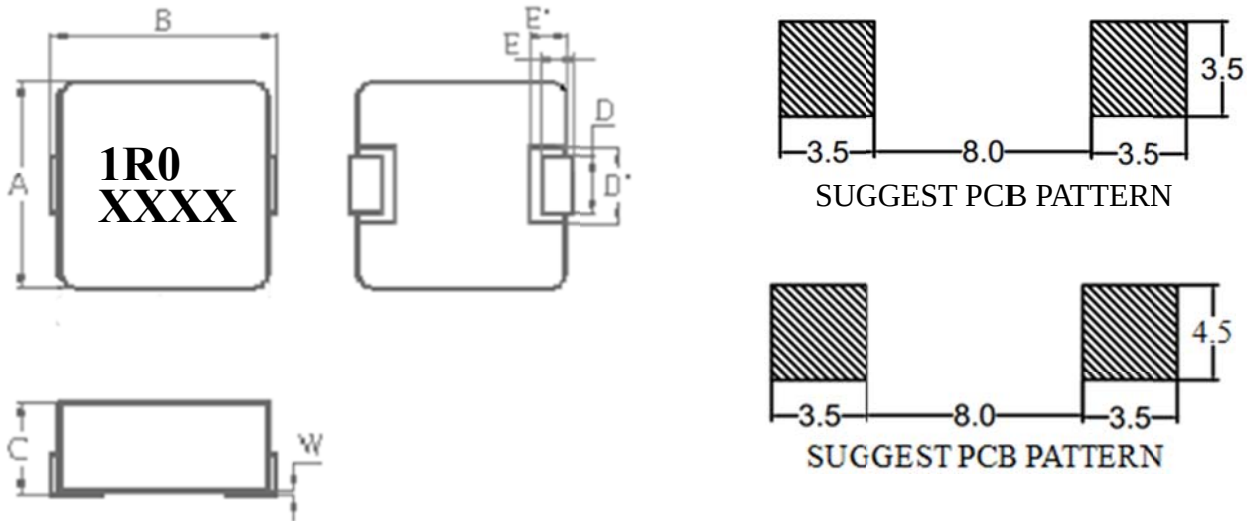


SMD Alloy Molding Power Inductor EM-11V Series (1235)

1. CONFIGURATIONS & DIMENSIONS



Code	Dimensions(mm)				
	R22	R33	R47/R56/R68/1R0/1R5/2R2/4R7/5R6/6R8/100	8R2/150	220
A:	12.6±0.3				
B:	13.6±0.3	13.8±0.3	13.8MAX		
C:	3.5MAX				3.8MAX
E:	2.0±0.5				
E':	2.5±0.1				
D:	4.0±0.5	4.0±0.5	3.0±0.5	4.0±0.5	3.0±0.5
D':	6.0±0.2				
W:	0.15±0				



TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%

2. SPECIFICATIONS

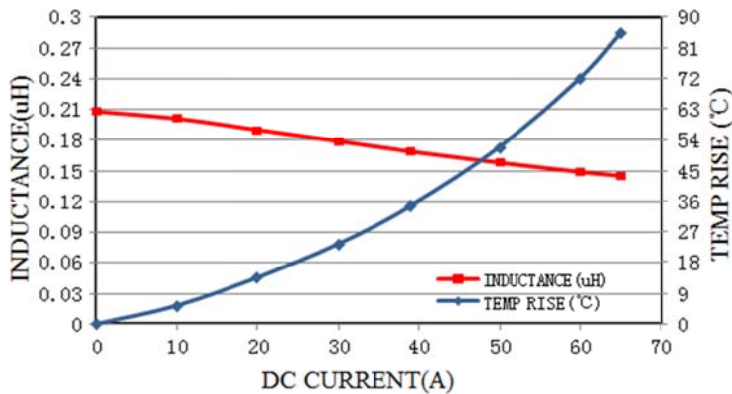
Part Number	Inductance L0(uH)± 20%@0A	Irms(A) typ	Isat(A) typ	DCR(mΩ) @25°C
EM-22BM11V02	0.22	39	65	0.85max
EM-33BM11V01	0.33	40	70	1.08±10%
EM-47BM11V01	0.47	31	36	1.7max
EM-56BM11V01	0.56	25	45	2.35max
EM-68BM11V04	0.68	28	49	2.5max
EM-10AM11V01	1.00	16	30	4.3max
EM-15AM11V02	1.50	19	30	3.9±10%
EM-22AM11V02	2.20	15	25	7.0max
EM-47AM11V01	4.70	10	16	14.8±10%
EM-56AM11V01	5.60	10	18	20max
EM-68AM11V01	6.80	8.5	12	26.5max
EM-82AM11V01	8.20	8.5	16	28max
EM-100M11V01	10.00	8	12	29±10%
EM-150M11V01	15.00	5.5	10.5	57max
EM-220M11V01	22.00	4.5	6.0	65±10%

Note:

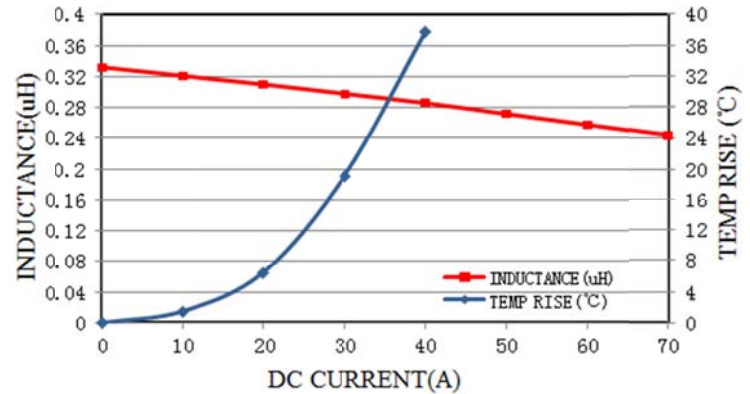
1. Test frequency: L: 100 KHz /1.0v.
2. All test data referenced to 25°C ambient.
3. Temperature Rise Current: ΔT 40°C approximately at Irms.
4. Saturation Rated Current: Inductance drop approximately 30% at Isat.
5. Storage temp.: -40°C ~ 85°C.
6. Storage R.H: 20% ~ 75%.
7. Operating temp.: -55°C ~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

3. DC Bias Characteristics (Typical)

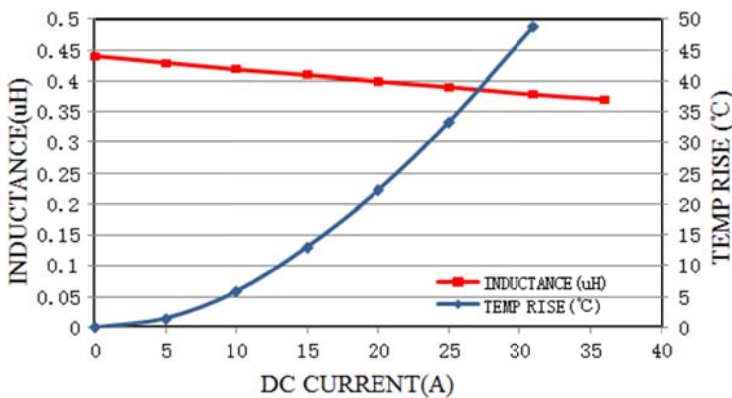
EM-22BM11V02



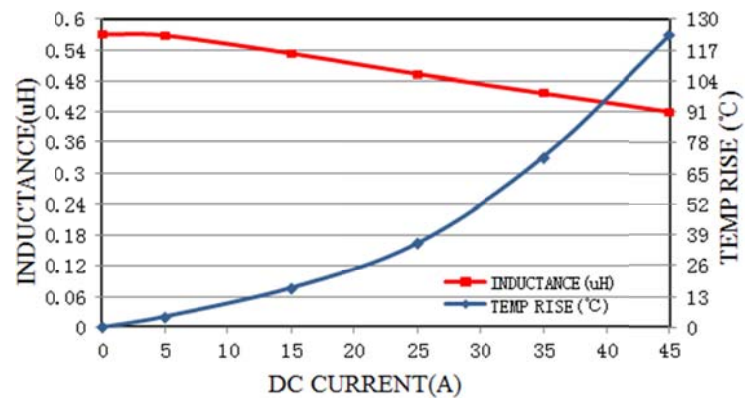
EM-33BM11V01



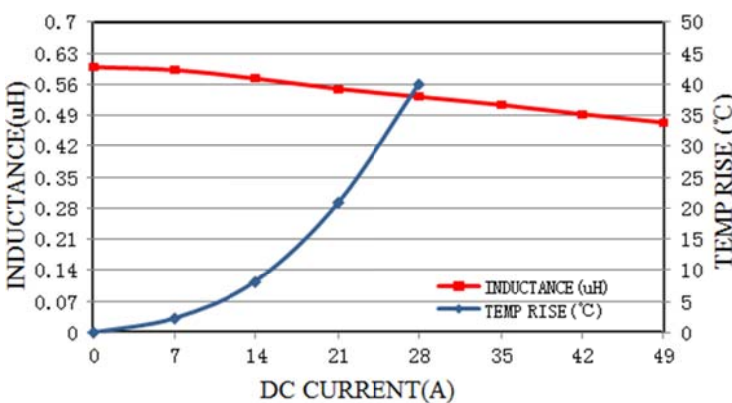
EM-47BM11V01



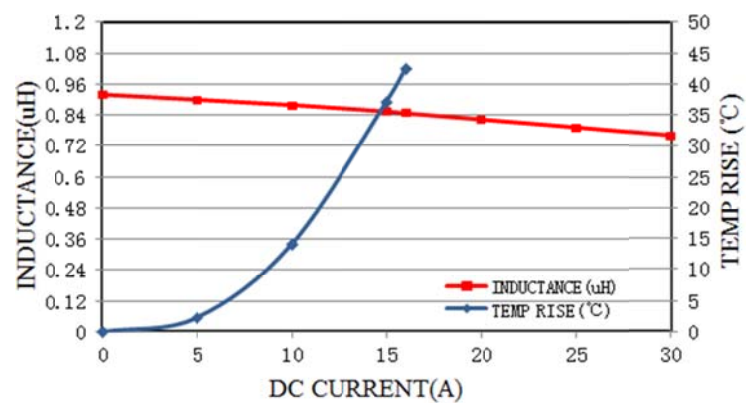
EM-56BM11V01



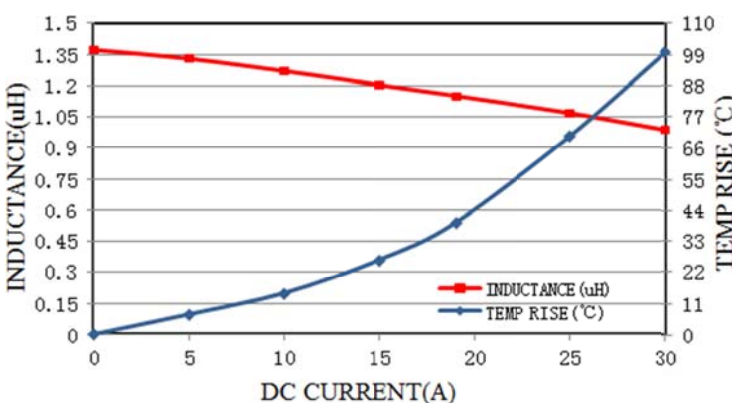
EM-68BM11V04



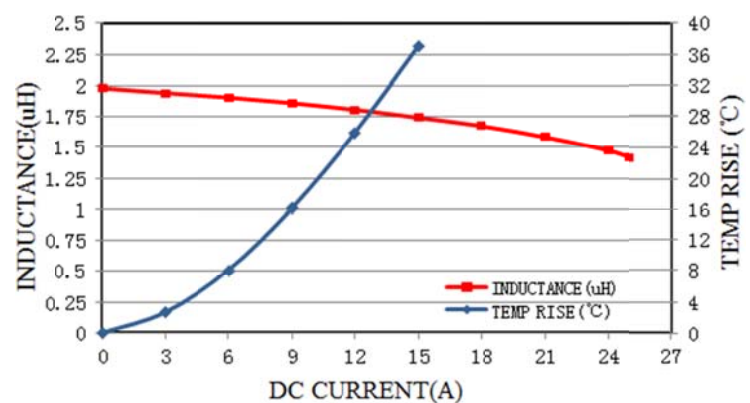
EM-10AM11V01



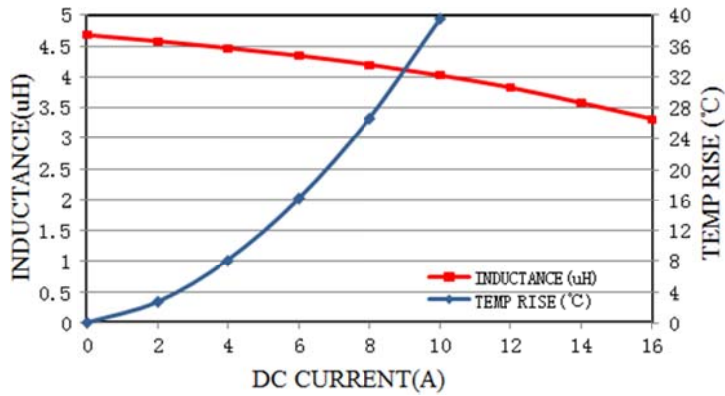
EM-15AM11V02



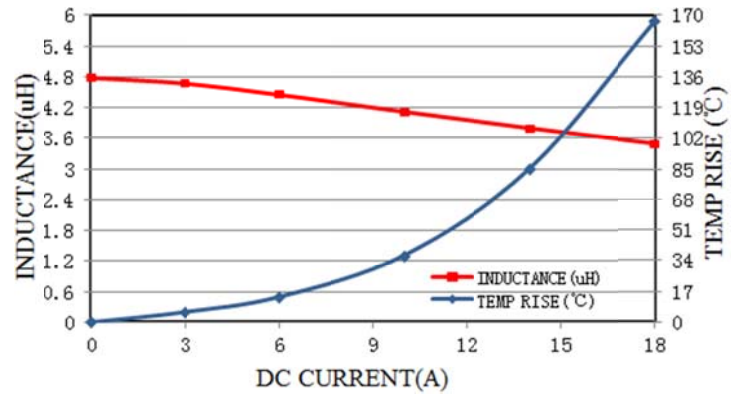
EM-22AM11V02



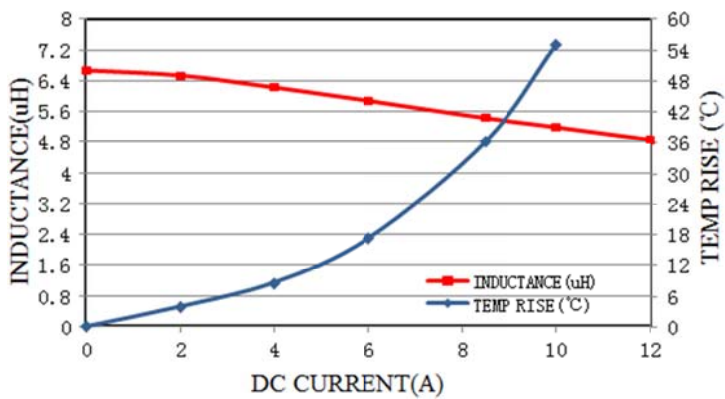
EM-47AM11V01



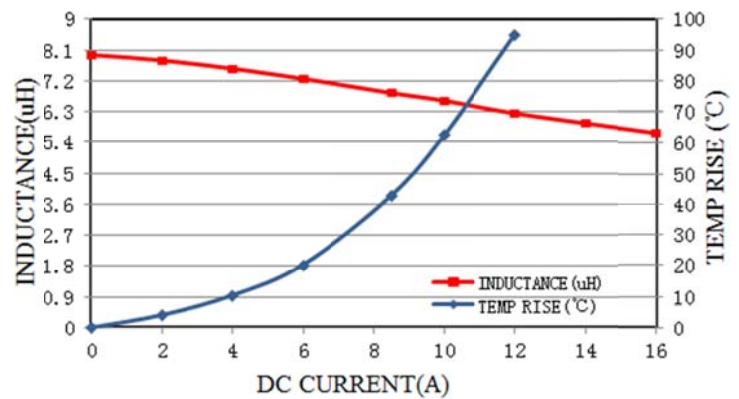
EM-56AM11V01



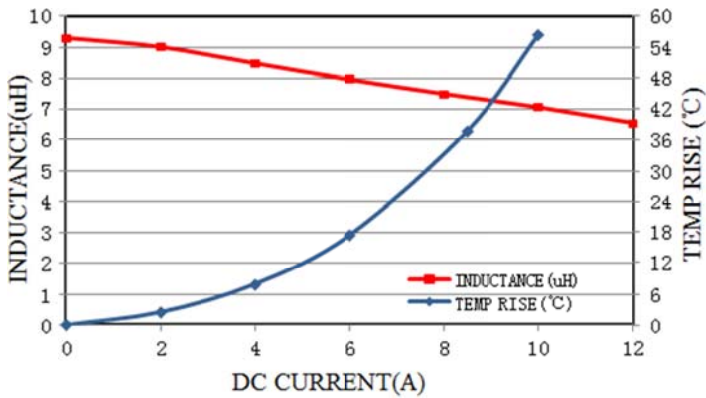
EM-68AM11V01



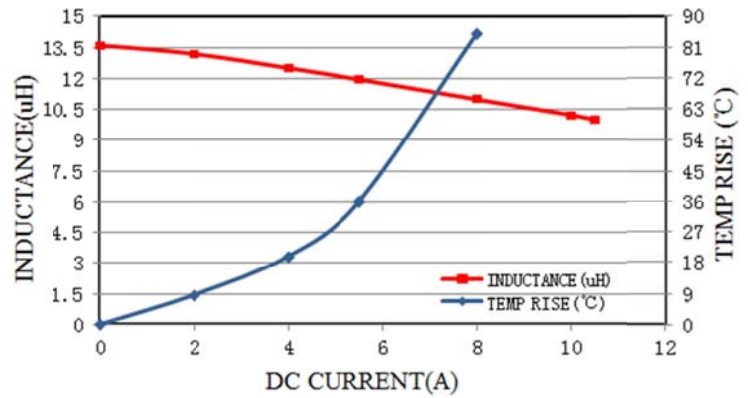
EM-82AM11V01



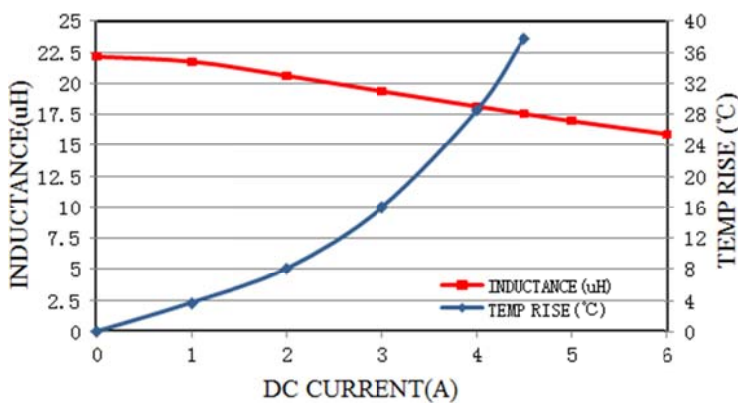
EM-100M11V01



EM-150M11V01

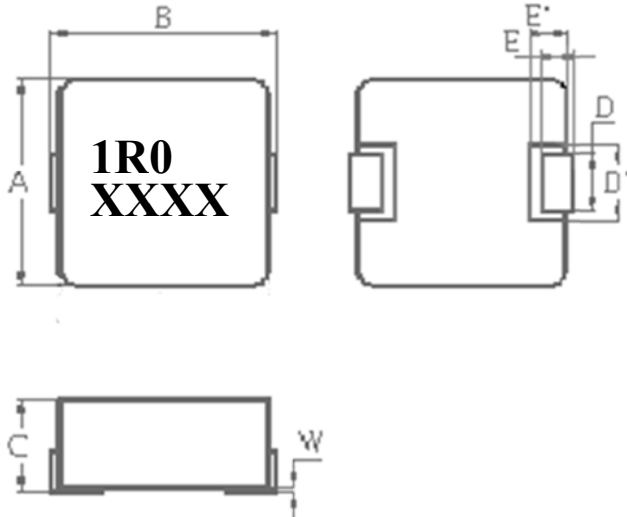


EM-220M11V01

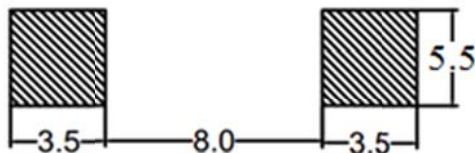


SMD Alloy Molding Power Inductor EM-13V Series (1250)

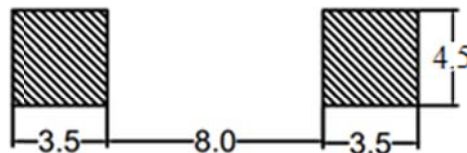
1. CONFIGURATIONS & DIMENSIONS



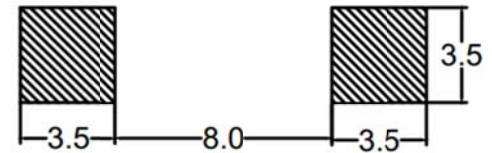
Code	Dimensions(mm)		
	R22	R27/R36/ R68/R70/7 R2	R47/R75/ R82/1R0/1 R2/1R5/2 R2/4R7
A:	12.6±0.3		
B:	14.0MAX	14.2MAX	
C:	5.0MAX		
E:	2.0±0.5		
E':	2.5±0.1		
D :	5.0±0.5	4.0±0.5	3.0±0.5
D' :	7.0±0.2	6.0±0.2	
W:	0.15+0		



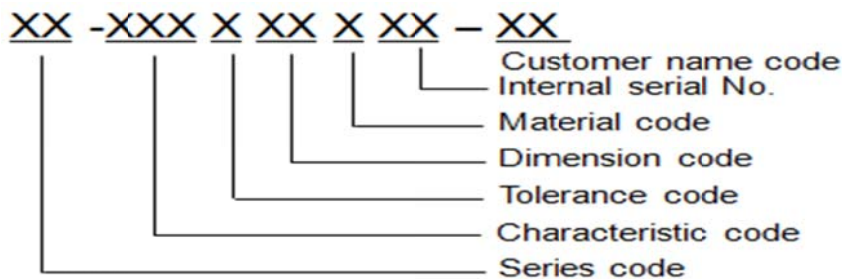
SUGGEST PCB PATTERN



SUGGEST PCB PATTERN



SUGGEST PCB PATTERN



TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%

2. SPECIFICATIONS

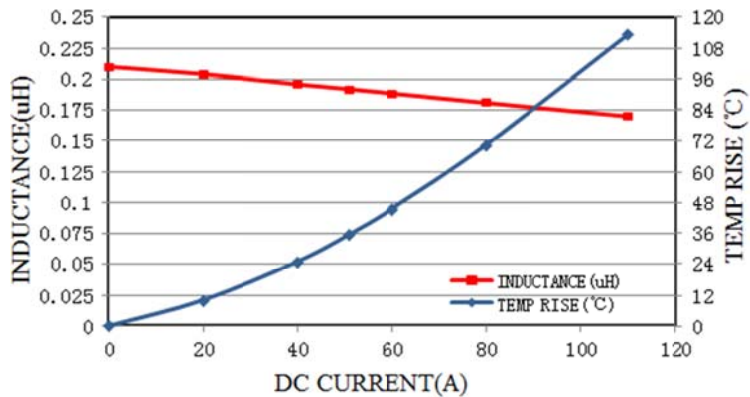
Part Number	Inductance L0(uH) ± 20% @ 0A	Irms(A) typ	Isat(A) typ	DCR(mΩ) @25°C
EM-22BM13V01	0.22	51	110	0.65max
EM-27BM13V01	0.27	35	50	0.45 ± 10%
EM-36BM13V04	0.36	41	75	1.1max
EM-47BM13V02	0.47	38	65	1.3max
EM-68BM13V03	0.68	33	46	1.55max
EM-70BM13V01	0.70	25	40	1.2 ± 10%
EM-75BM13V01	0.75	33	50	1.7max
EM-82BM13V04	0.82	30	39	1.67max
EM-10AM13V03	1.00	26	50	2.5max
EM-12AM13V01	1.20	17	45	2.5 ± 10%
EM-15AM13V06-I4	1.50	24	39	3.3max
EM-22AM13V03	2.20	20	32	5.5max
EM-47AM13V04	4.70	12	27	10.8 ± 10%
EM-72AM13V01	7.20	10.5	20	18max

Note:

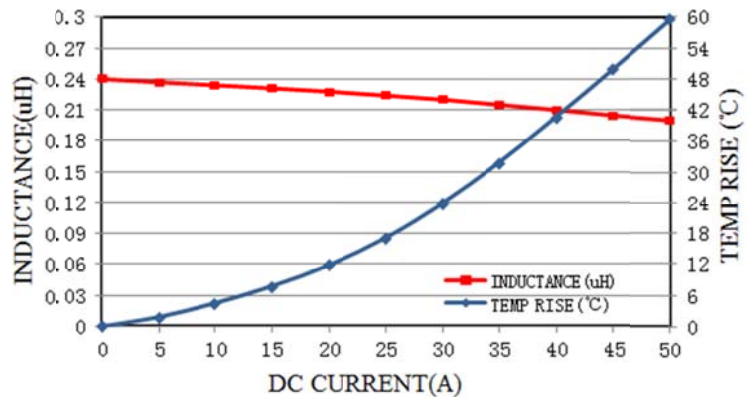
1. Test frequency: L: 100 KHz /1.0v.
2. All test data referenced to 25°C ambient.
3. Temperature Rise Current: ΔT 40°C approximately at Irms.
4. Saturation Rated Current: Inductance drop approximately 30% at Isat.
5. Storage temp.: -40°C ~ 85°C.
6. Storage R.H: 20% ~ 75%.
7. Operating temp.: -55°C ~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

3. DC Bias Characteristics (Typical)

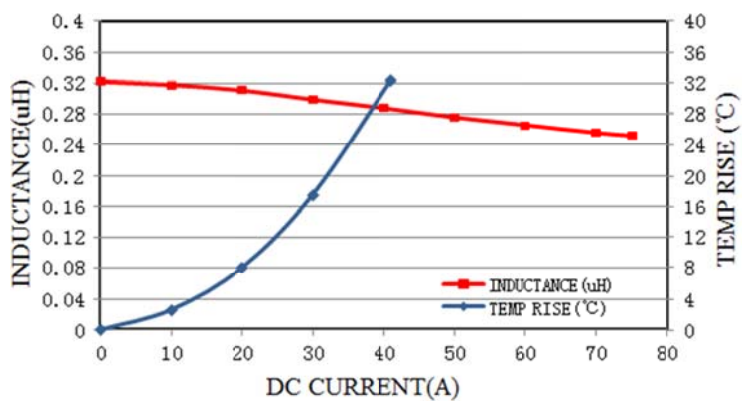
EM-22BM13V01



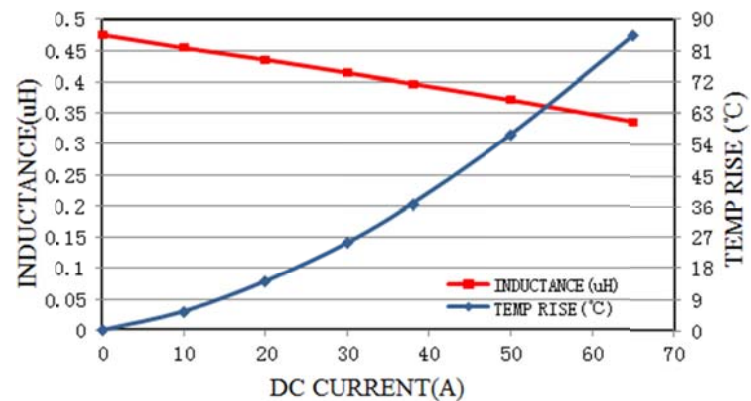
EM-27BM13V01



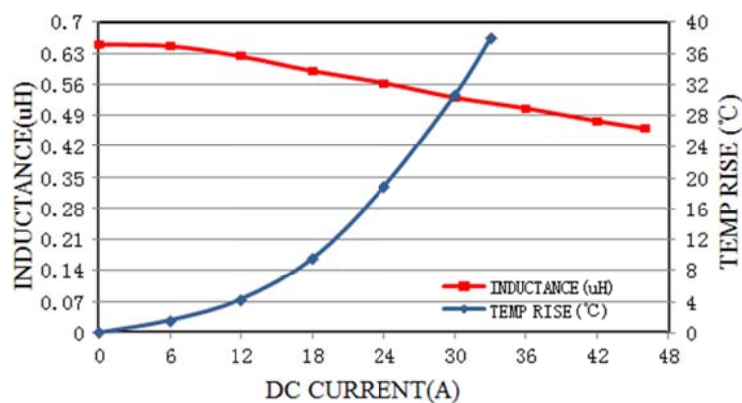
EM-36BM13V04



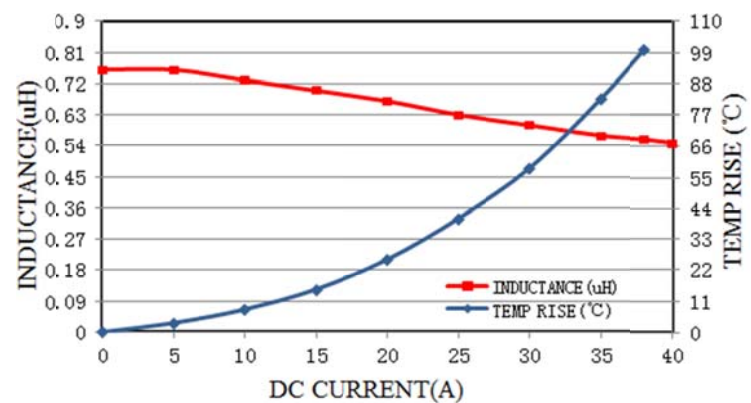
EM-47BM13V02



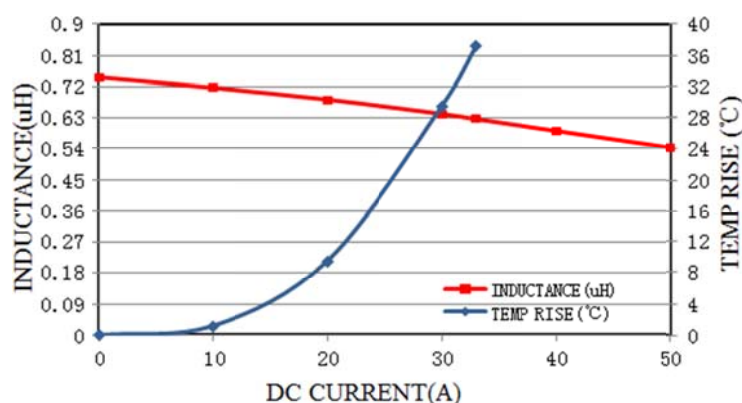
EM-68BM13V03



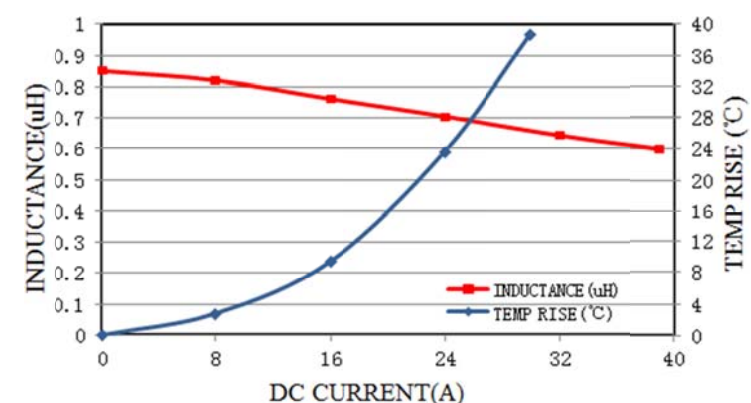
EM-70BM13V01



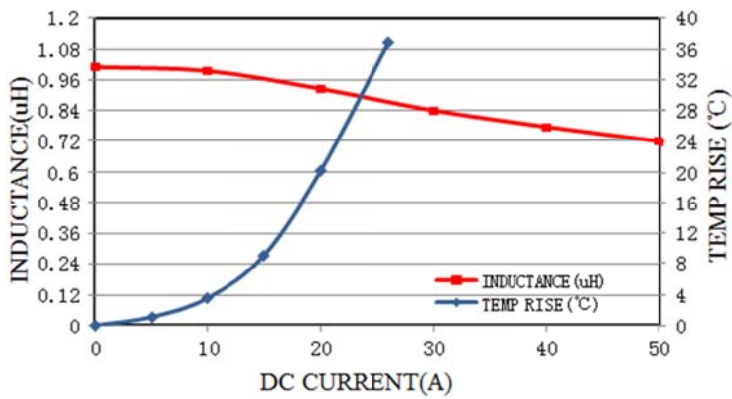
EM-75BM13V01



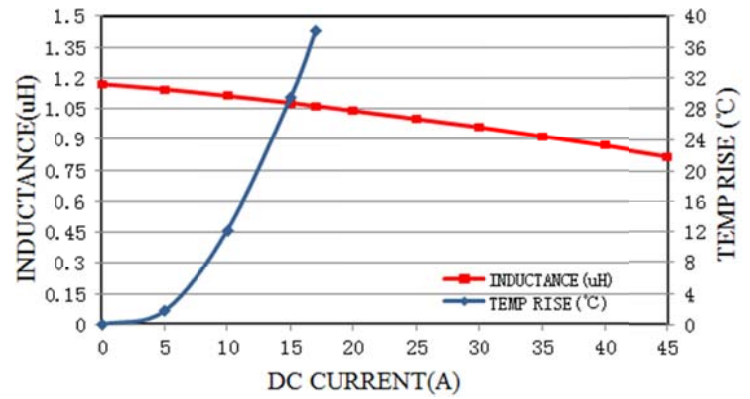
EM-82BM13V04



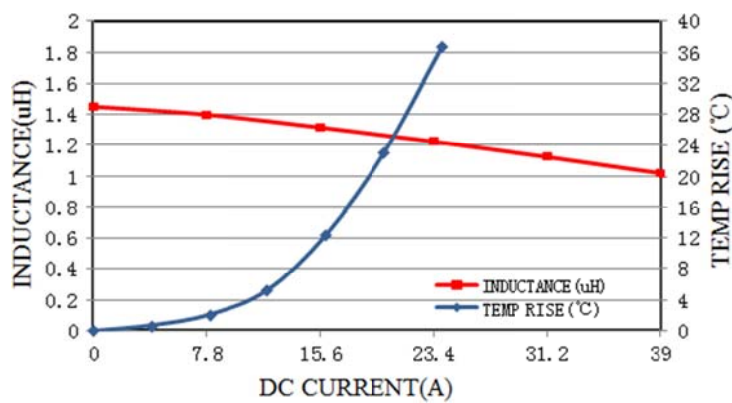
EM-10AM13V03



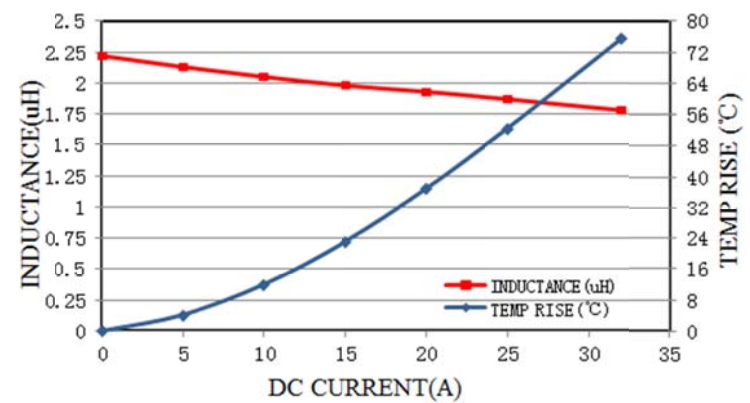
EM-12AM13V01



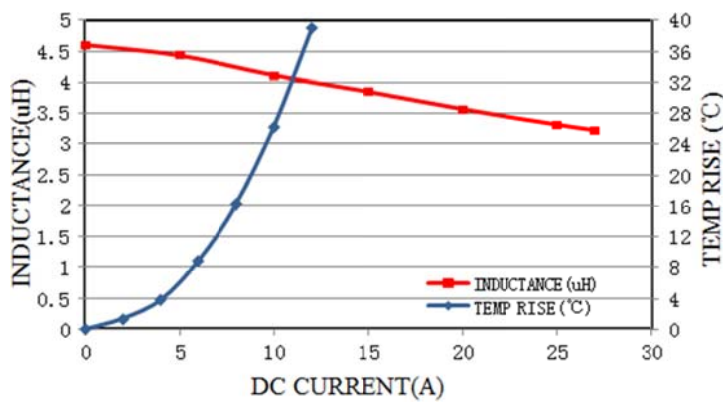
EM-15AM13V06-I4



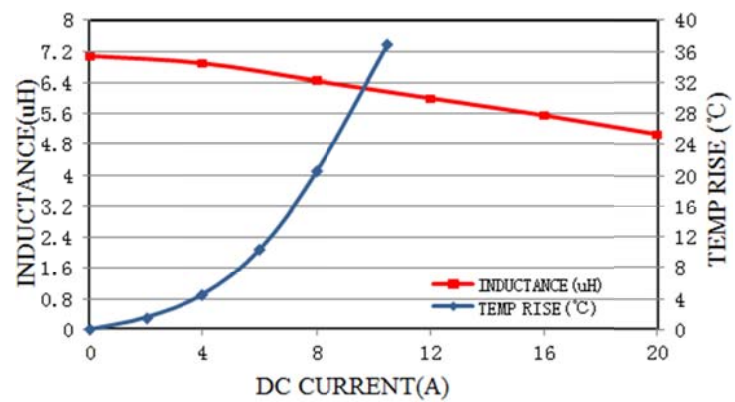
EM-22AM13V03



EM-47AM13V04

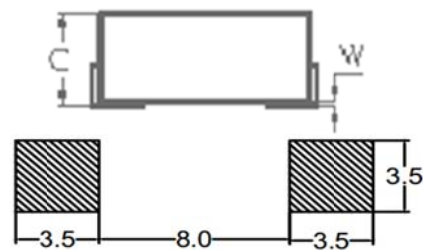
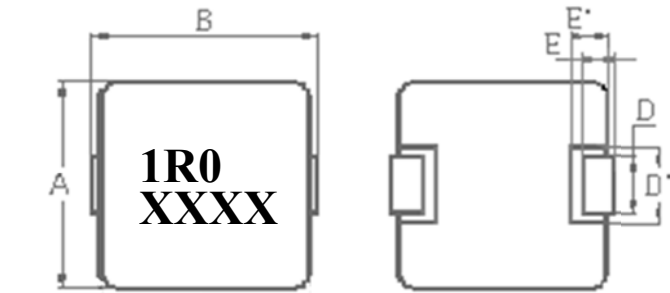


EM-72AM13V01

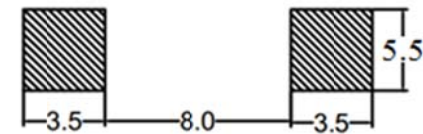


SMD Alloy Molding Power Inductor EM-62V Series (1260)

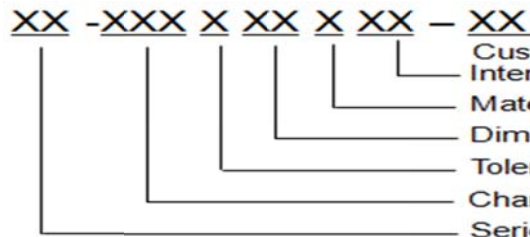
1. CONFIGURATIONS & DIMENSIONS



SUGGEST PCB PATTERN



SUGGEST PCB PATTERN



TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%

Code	Dimensions(mm)	
	100/220/30	470
A:	12.6±0.3	
B:	13.7±0.5	
C:	6.0MAX	
E:	2.5±0.5	
E':	3.0±0.1	
D :	5.0±0.3	3.0±0.5
D' :	7.0±0.2	6.0±0.2
W:	0.15±0	

2. SPECIFICATIONS

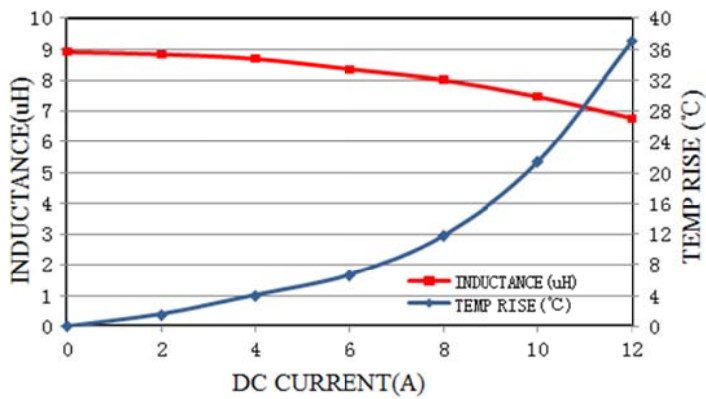
Part Number	Inductance L0(uH)± 20%@0A	Irms(A) typ	Isat(A) typ	DCR(mΩ) @25℃
EM-100M62V01	10.00	12	12	12max
EM-220M62V01	22.00	5.5	9	46.3±10%
EM-330M62V01	33.00	5.8	8	55max
EM-470M62V01	47.00	3.5	5.5	90max

Note:

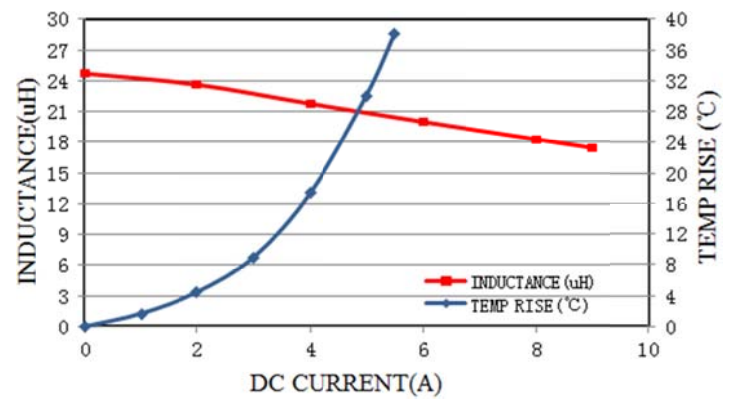
1. Test frequency: L: 100 KHz /1.0v.
2. All test data referenced to 25℃ ambient.
3. Temperature Rise Current: ΔT 40℃ approximately at Irms.
4. Saturation Rated Current: Inductance drop approximately 30% at Isat.
5. Storage temp.: -40℃ ~ 85℃.
6. Storage R.H: 20% ~ 75%.
7. Operating temp.: -55℃~ +125℃.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

3. DC Bias Characteristics (Typical)

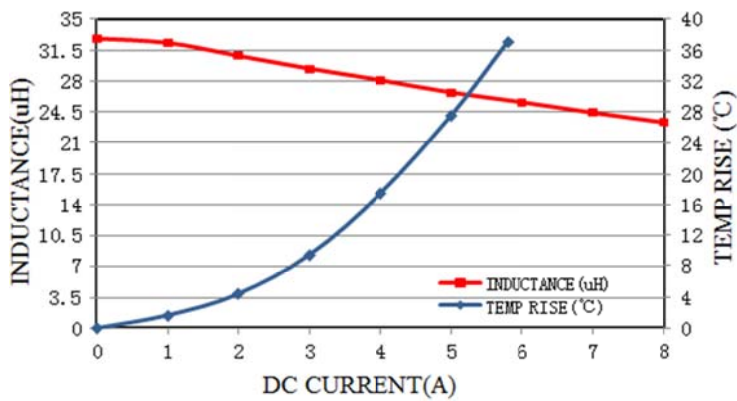
EM-100M62V01



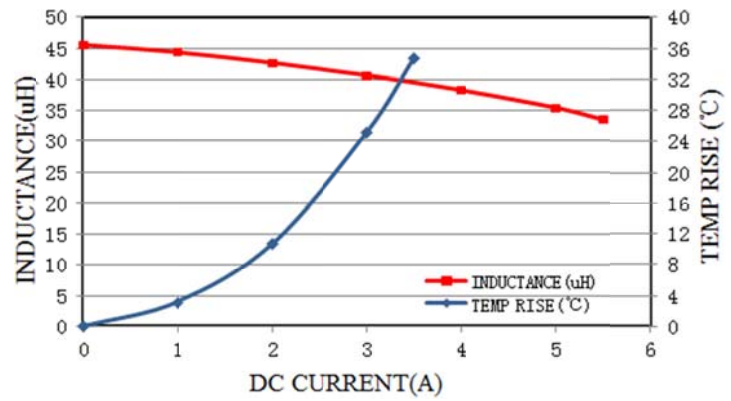
EM-220M62V01



EM-330M62V01

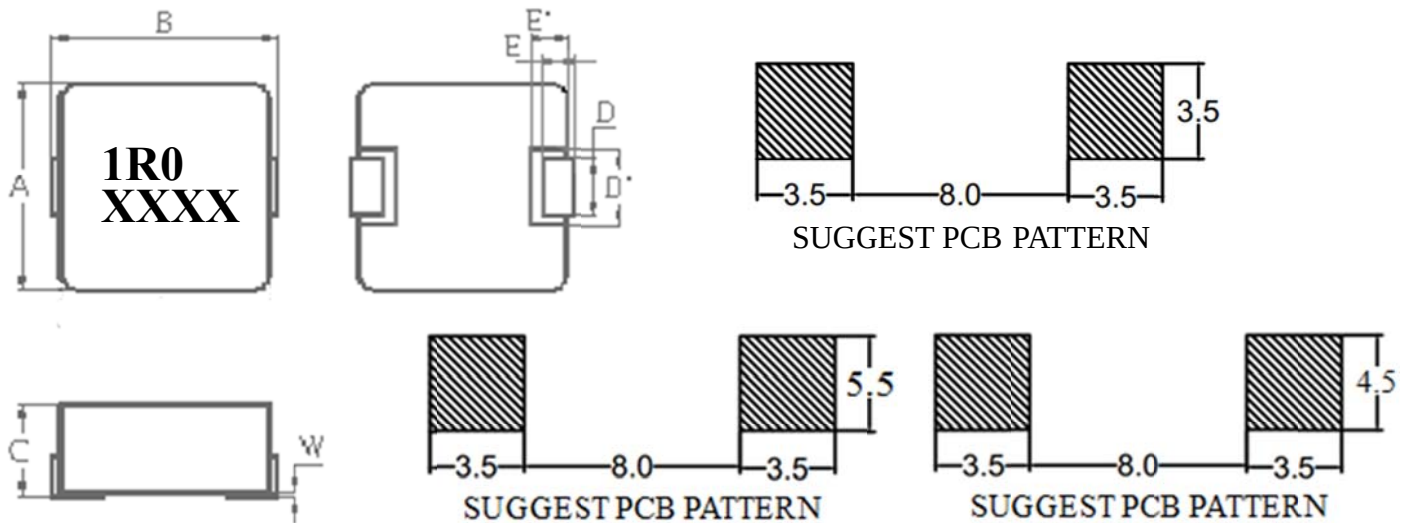


EM-470M62V01

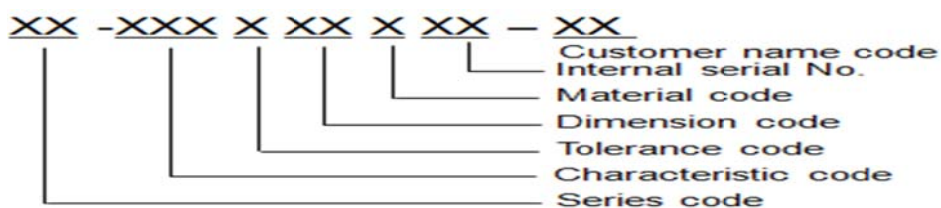


SMD Alloy Molding Power Inductor EM-17V Series (1265)

1. CONFIGURATIONS & DIMENSIONS



Code	Dimensions(mm)						
	220	R68/1R0/1R3/1R5/1R8/2R0/2R2/3R3/4R7/6R8/8R2/330/470/101	680	100	R22/R33/R47	5R6/560	270
A:	12.6±0.3						
B:	13.7±0.5				14.0±0.5	14.0MAX	
C:	6.5MAX						6.4MAX
E:	2.5±0.5	2.0±0.5					
E':	3.0±0.1	2.5±0.1					
D :	5.0±0.3	3.0±0.5	5.0±0.5	5.0±0.3	4.0±0.5	3.0±0.5	
D' :	7.0±0.2	6.0±0.2					
W:	0.15+0						



TOLERANCE CODE:

J: $\pm 5\%$ K: $\pm 10\%$ L: $\pm 15\%$
M: $\pm 20\%$ N: $\pm 30\%$

2. SPECIFICATIONS

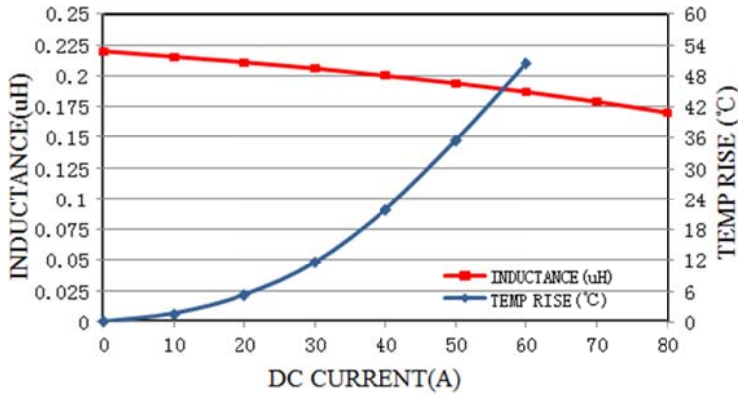
Part Number	Inductance L0(uH)± 20%@0A	Irms(A) typ	Isat(A) typ	DCR(mΩ) @25°C
EM-22BM17V01	0.22	50	80	0.65max
EM-33BM17V01	0.33	46	80	0.9max
EM-47BM17V01	0.47	40	55	0.7±10%
EM-68BM17V01	0.68	28	50	1.4±10%
EM-10AM17V02	1.00	35	35	1.39±7%
EM-13AM17V01	1.30	30	30	1.6±7%
EM-15AM17V02	1.50	30	30	1.75±7%
EM-18AM17V01	1.80	22	34	3.7max
EM-20AM17V01	2.00	24	30	2.6±10%
EM-22AM17V04	2.20	22	40	4.2max
EM-33AM17V04	3.30	20	20	3.48±7%
EM-47AM17V03	4.70	16	16	5.3±7%
EM-56AM17V01	5.60	12	20	16.5max
EM-68AM17V01	6.80	10.5	17	13±10%
EM-82AM17V01	8.20	10	17	17.5max
EM-100M17V02	10.00	10	11	14.5±10%
EM-220M17V02	22.00	6	8.5	47max
EM-270M17V01	27.00	6	9	49±10%
EM-330M17V01	33.00	6	8	62max
EM-470M17V02	47.00	4	7	102max
EM-560M17V01	56.00	3.2	6	135max
EM-680M17V01	68.00	3	5	188max
EM-101M17V02	100.00	3.5	4.7	130max

Note:

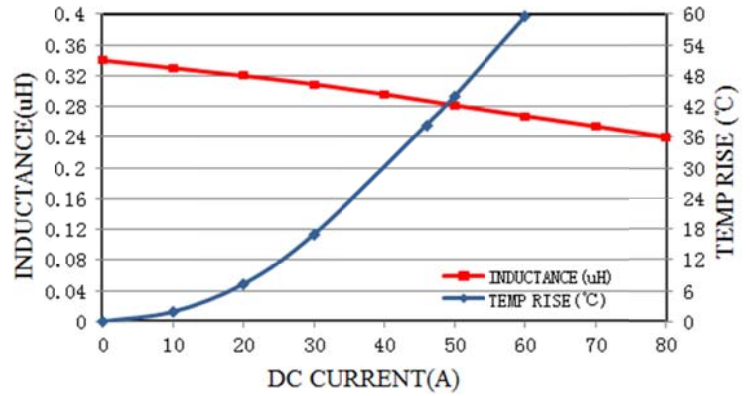
1. Test frequency: L: 100 KHz /1.0v.
2. All test data referenced to 25°C ambient.
3. Temperature Rise Current: ΔT 40°C approximately at Irms.
4. Saturation Rated Current: Inductance drop approximately 30% at Isat.
5. Storage temp.: -40°C ~ 85°C.
6. Storage R.H: 20% ~ 75%.
7. Operating temp.: -55°C ~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

3. DC Bias Characteristics (Typical)

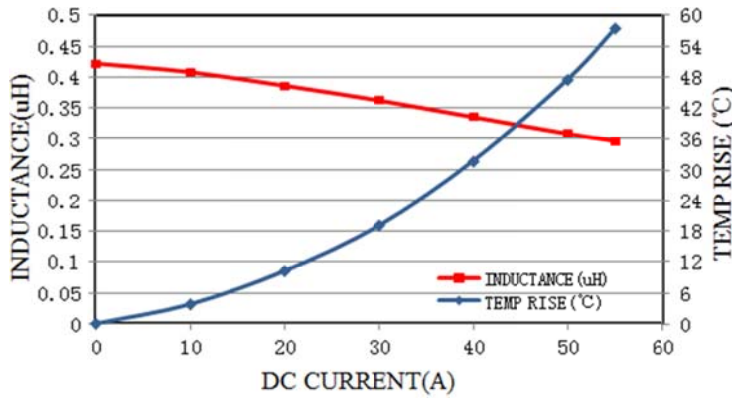
EM-22BM17V01



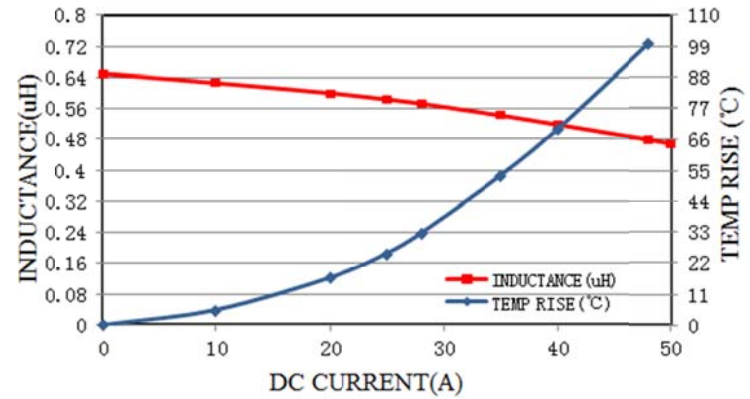
EM-33BM17V01



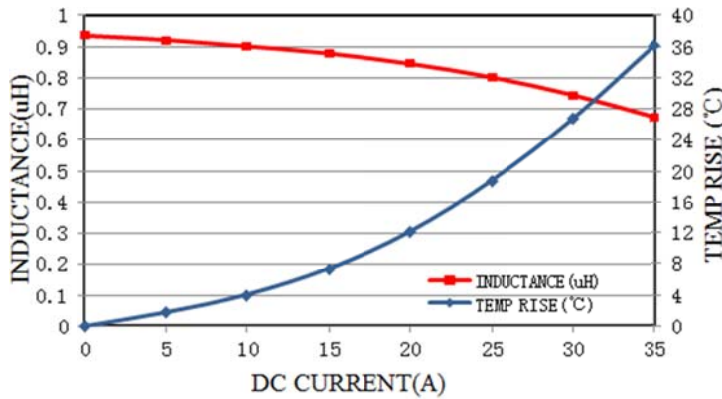
EM-47BM17V01



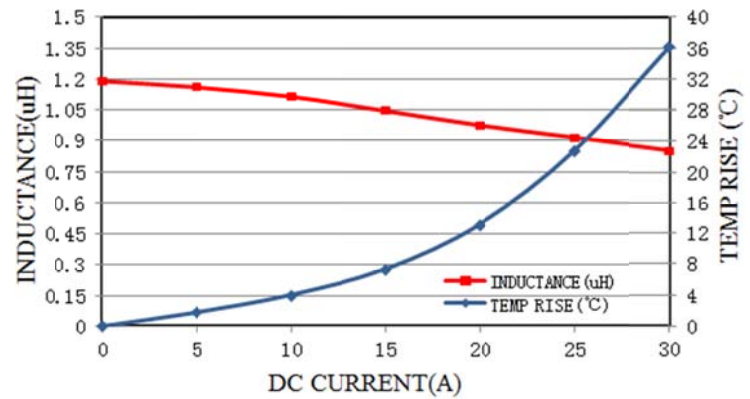
EM-68BM17V01



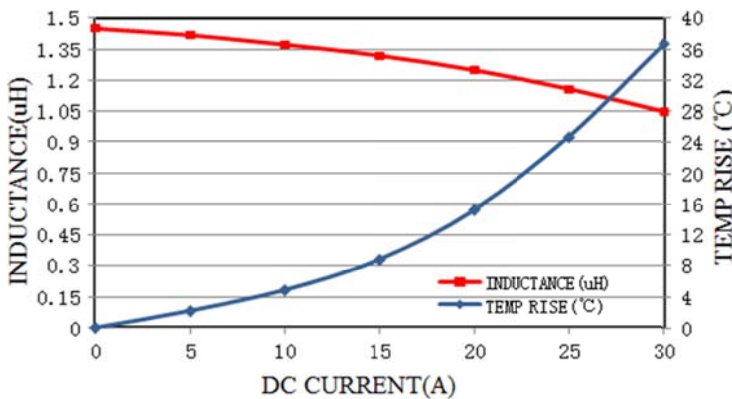
EM-10AM17V02



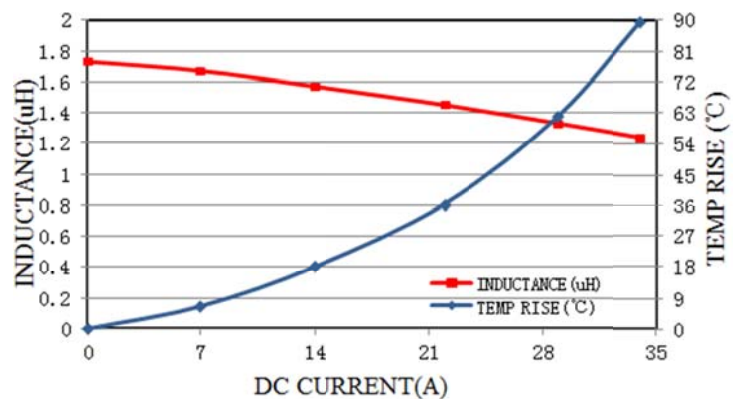
EM-13AM17V01



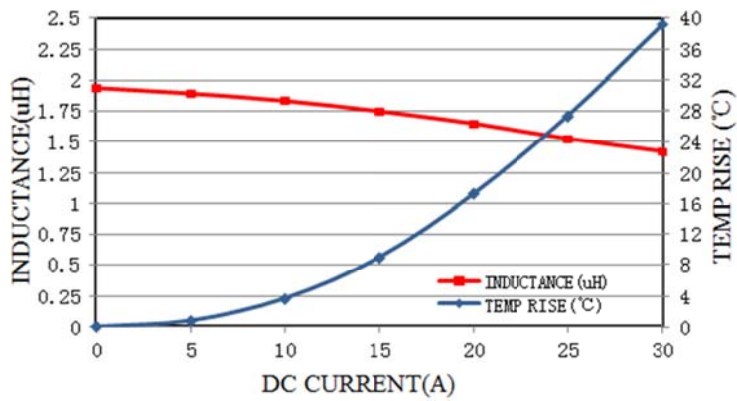
EM-15AM17V02



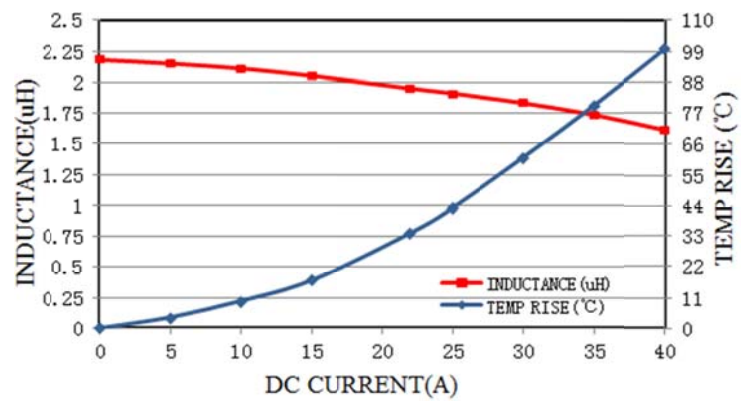
EM-18AM17V01



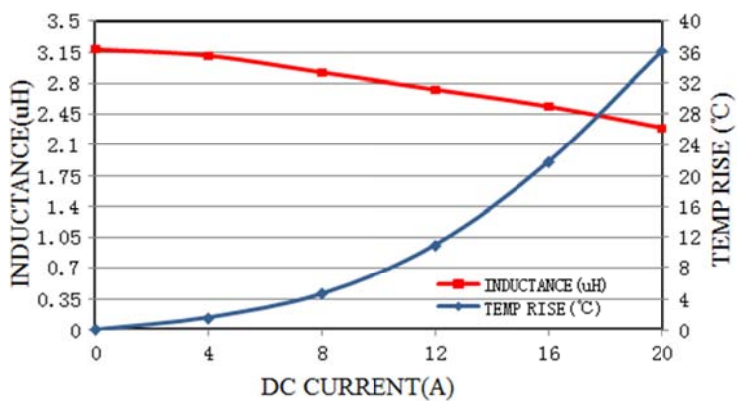
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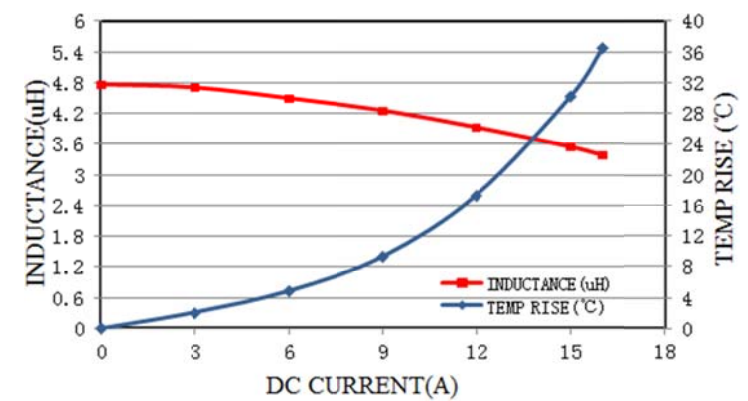
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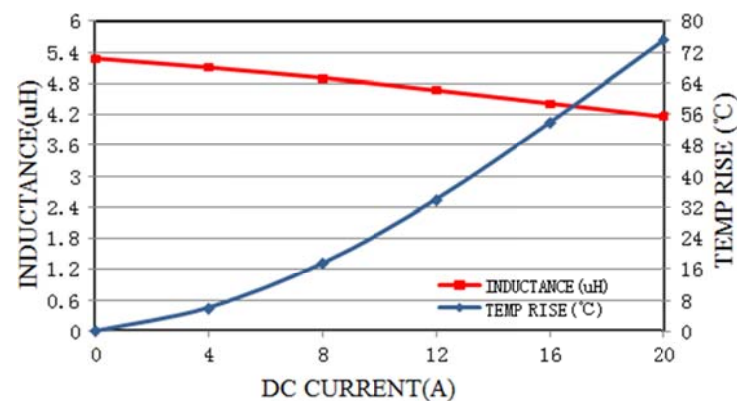
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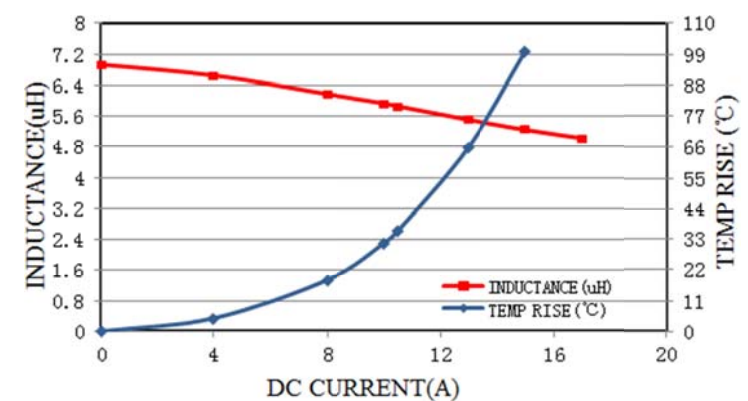
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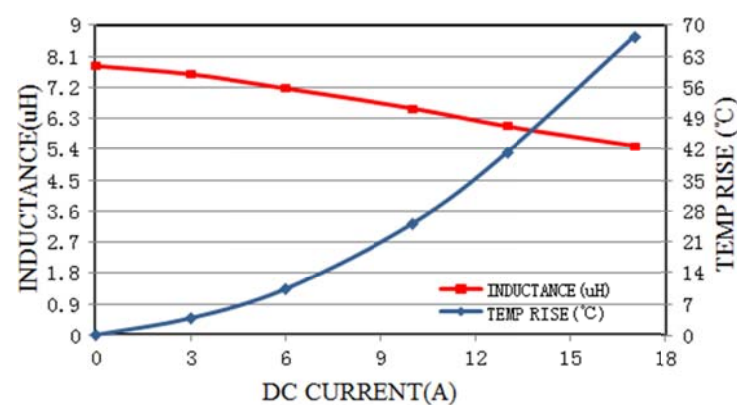
EM-56AM17V01



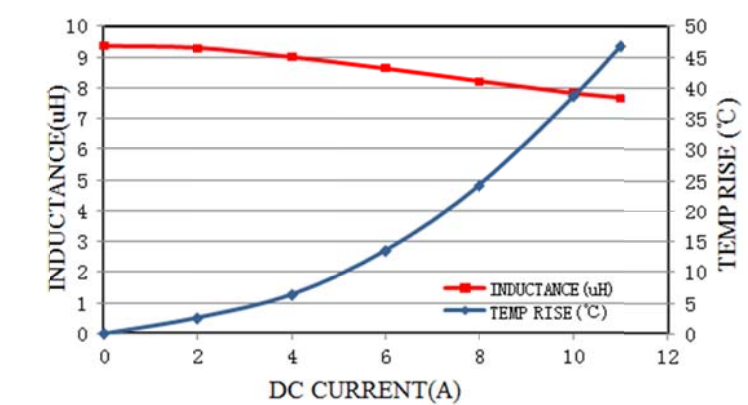
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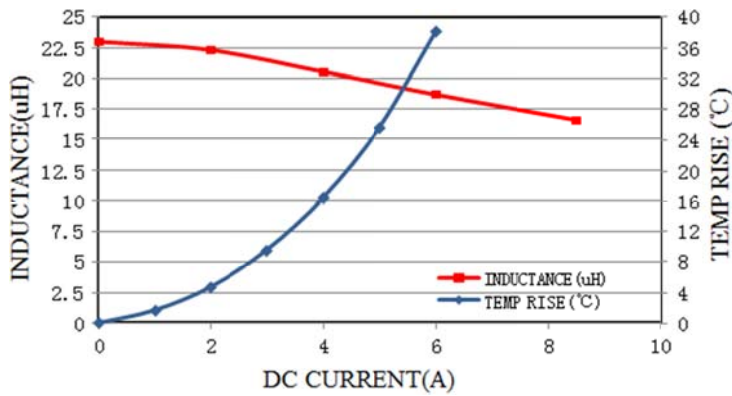
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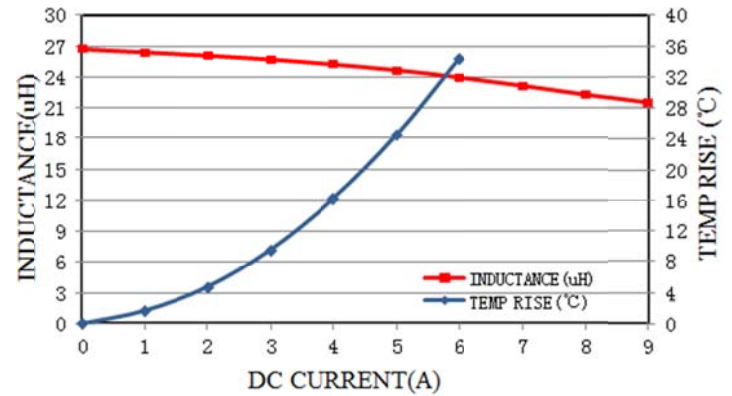
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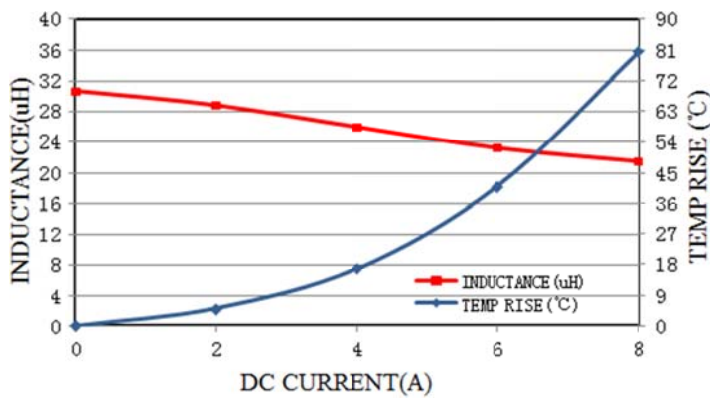
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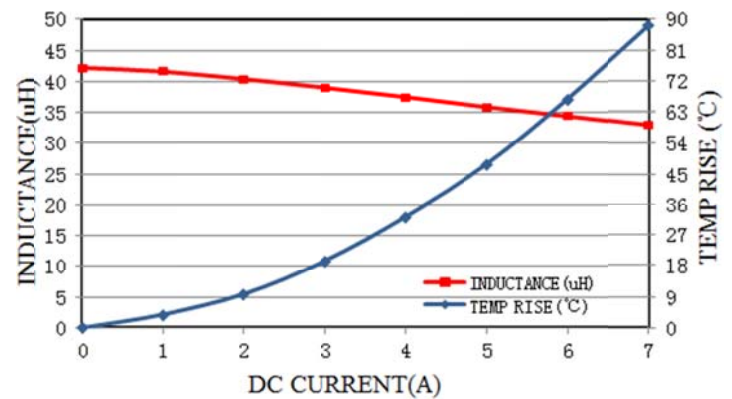
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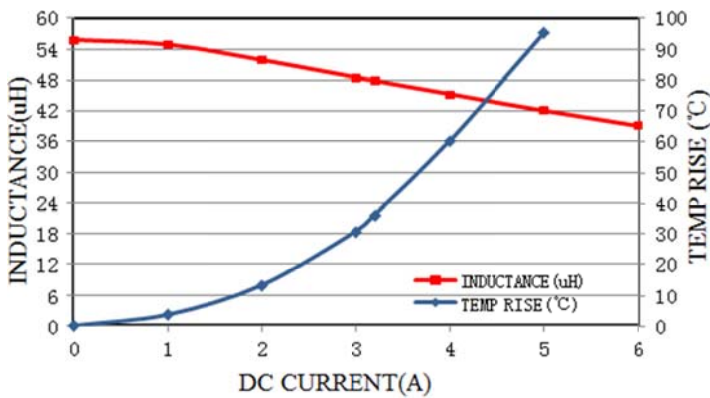
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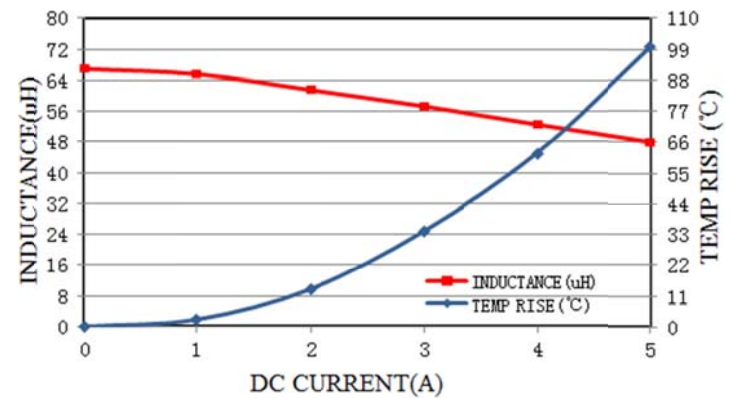
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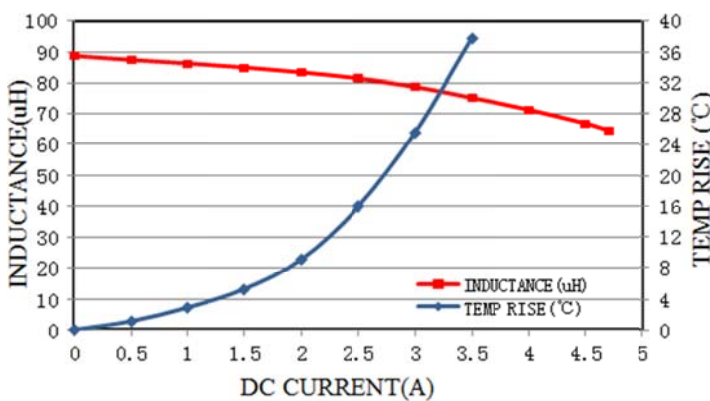
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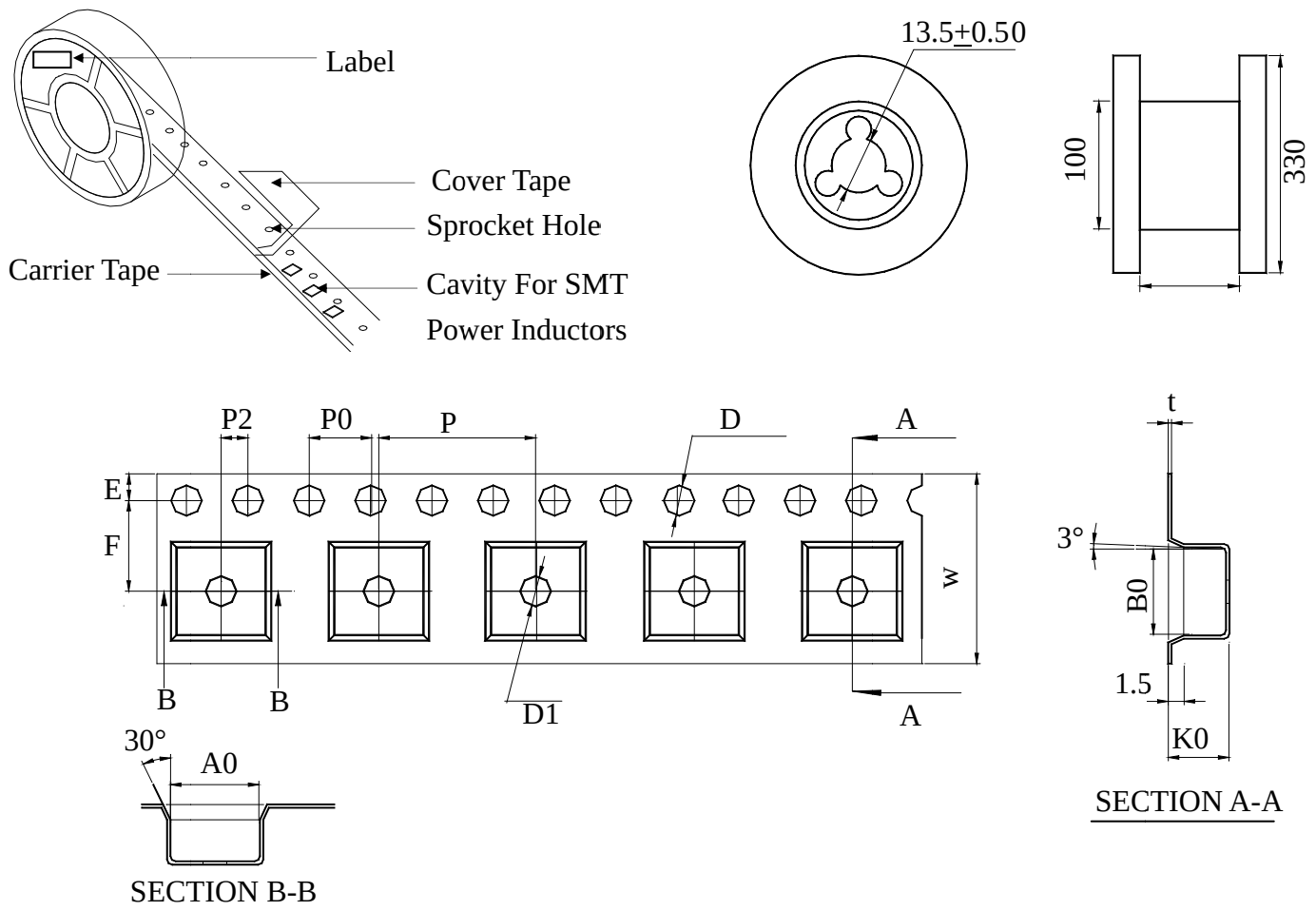


EM-680M17V01



EM-101M17V02



PACKAGING SPECIFICATION FOR SMD POWER INDUCTORS (unit: mm)


	W	P	E	F	A0	B0	K0	t
1235/ EM-11V	24.0+0.10/-0.30	20.0±0.10	1.75±0.10	11.50±0.10	13.4±0.10	14.3±0.10	3.8±0.10	0.35±0.05
1250/ EM-13V	24.0+0.10/-0.30	20.0±0.10	1.75±0.10	11.50±0.10	13.4±0.10	14.4±0.10	5.4±0.10	0.35±0.05
1260/ EM-62V	24.0+0.10/-0.30	20.0±0.10	1.75±0.10	11.50±0.10	13.0±0.10	14.6±0.10	6.5±0.10	0.40±0.05
1265/ EM-17V	24.0+0.10/-0.30	20.0±0.10	1.75±0.10	11.50±0.10	13±0.10	14.9±0.10	7.0±0.10	0.40±0.05

	Chip / Reel
1235/EM-11V	500 pcs
1250/EM-13V	500 pcs
1260/EM-62V	500 pcs
1265/EM-17V	500pcs