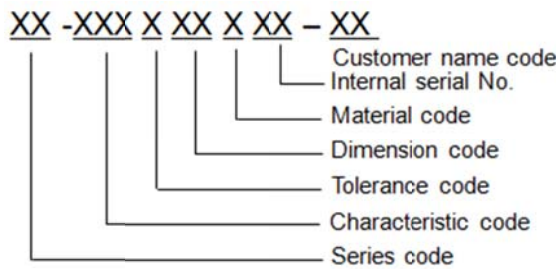
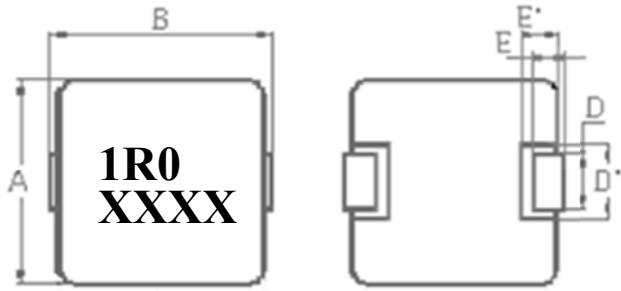


SMD Alloy Molding Power Inductor EM-21V Series (5512)

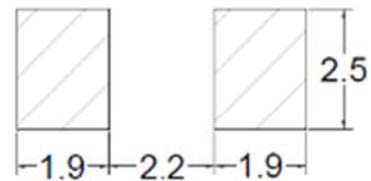
1. CONFIGURATIONS & DIMENSIONS



TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%

Code	Dimensions(mm)
A:	5.2±0.3
B:	5.7±0.3
C:	1.2MAX
E:	1.0±0.5
E':	1.5±0.1
D :	2.2±0.3
D' :	2.6±0.2
W:	0.15+0



SUGGEST PCB PATTERN

2. SPECIFICATIONS

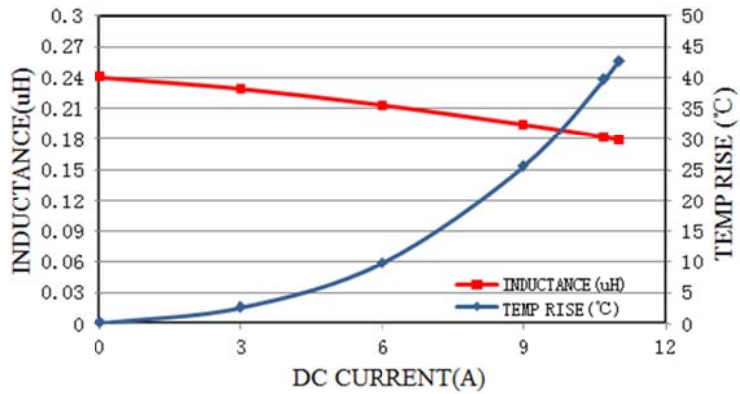
Part Number	Inductance L0(uH) ± 20%@0A	Irms(A) typ	Isat(A) typ	DCR(mΩ) @25°C
EM-22BM21V01	0.22	10.7	11	8.9max
EM-60BM20V01	0.60	6.3	9.4	22max
EM-10AM21V03	1.00	4.4	5.7	46.5max
EM-15AM21V01	1.50	4	4	40 ± 10%
EM-22AM21V01	2.20	3.3	3.3	92max
EM-33AM21V03	3.30	3	3.7	98max
EM-47AM21V01	4.70	2.5	2.5	131max

Note:

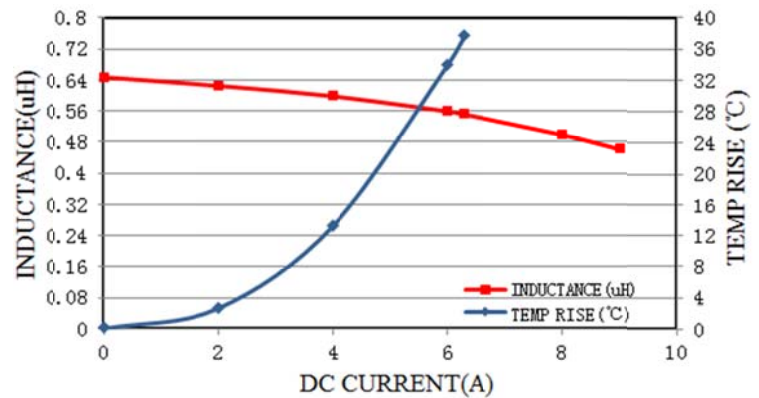
1. Test frequency: L: 100 KHz /1.0v.
2. All test data referenced to 25°C ambient.
3. Temperature Rise Current: ΔT 40°C approximately at Irms.
4. Saturation Rated Current: Inductance drop approximately 30% at Isat.
5. Storage temp.: -40°C ~ 85°C.
6. Storage R.H: 20% ~ 75%.
7. Operating temp.: -55°C ~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

3. DC Bias Characteristics (Typical)

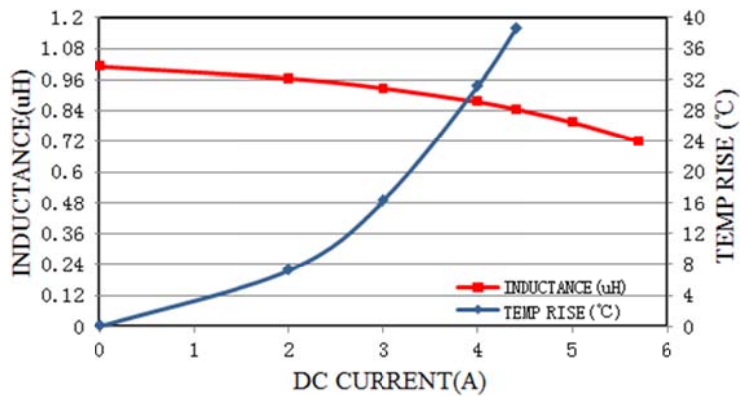
EM-22BM21V01



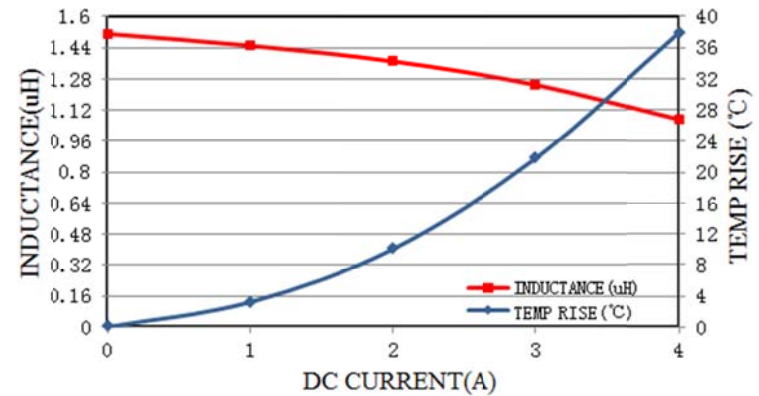
EM-60BM21V01



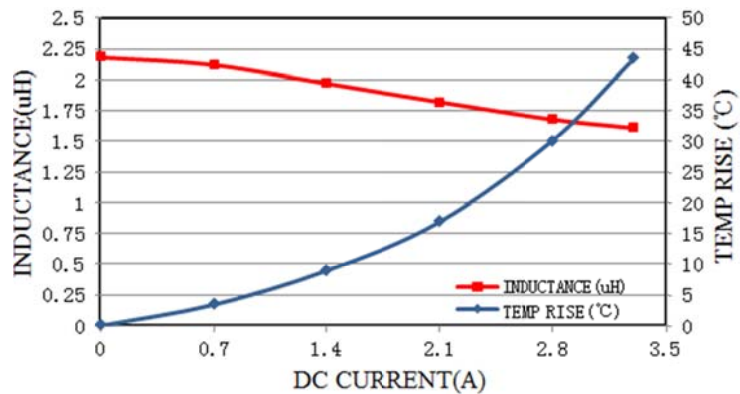
EM-10AM21V03



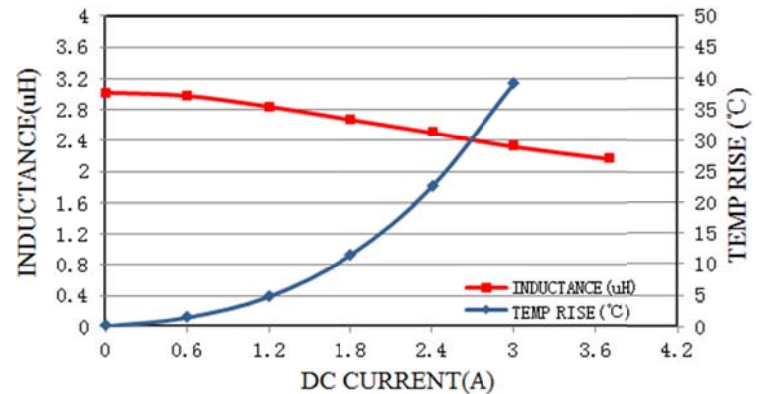
EM-15AM21V01



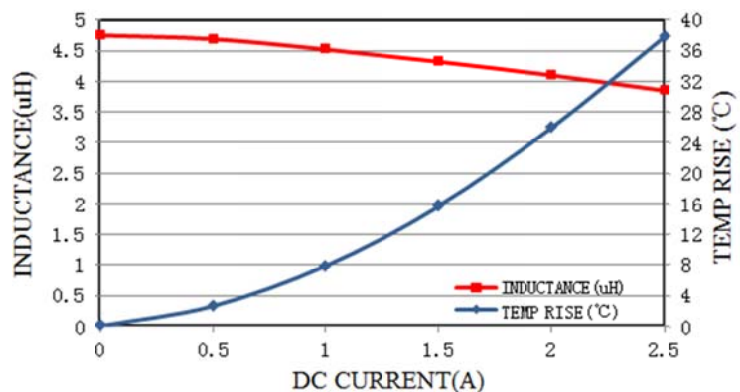
EM-22AM21V01



EM-33AM21V03

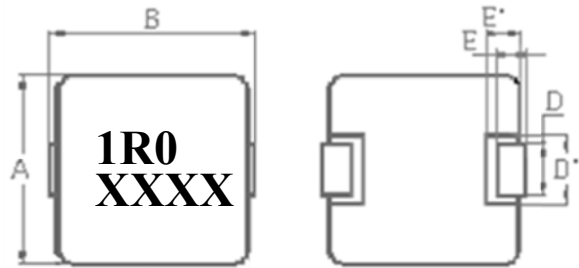


EM-47AM21V01



SMD Alloy Molding Power Inductor EM-22V Series (5515)

1. CONFIGURATIONS & DIMENSIONS



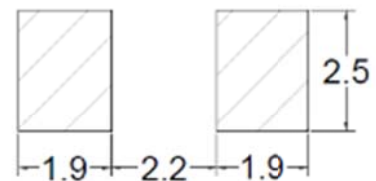
XX -XXX X XX X XX - XX

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:	5.2 ± 0.3
B:	5.7 ± 0.3
C:	1.5MAX
E:	1.0 ± 0.5
E':	1.5 ± 0.1
D :	2.2 ± 0.3
D' :	2.6 ± 0.2
W:	0.15 ± 0



SUGGEST PCB PATTERN

2. SPECIFICATIONS

Part Number	Inductance L0(uH)± 20%@0A	I _{rms} (A) typ	I _{sat} (A) typ	DCR(mΩ) @25℃
EM-12BM22V01	0.12	18	21	$2.9 \pm 10\%$
EM-15BM22V06	0.15	16	25	4.1max
EM-27BM22V01	0.27	13	15	6.0max
EM-30BM22V01	0.30	13	15	6.0max
EM-47BM22V06	0.47	9.5	12	$9.5 \pm 7\%$
EM-68BM22V01	0.68	10	10	$11.5 \pm 10\%$
EM-10AM22V04	1.00	5.5	9	25.3max
EM-15AM22V03	1.50	4.5	8	50max
EM-22AM22V05	2.20	4	6	52max
EM-33AM22V01	3.30	3.2	5	72max

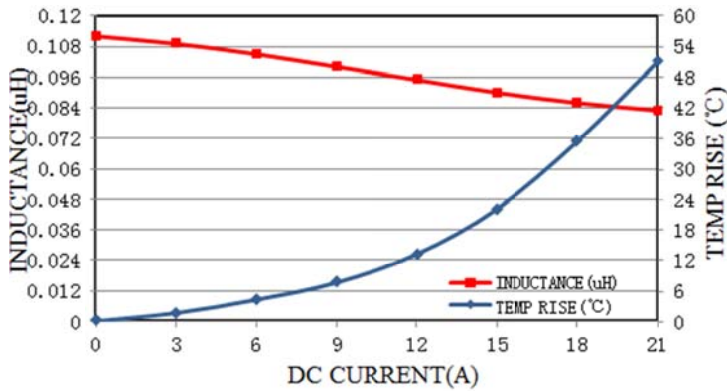
Note:

1. Test frequency: L: 100 KHz /1.0v.
2. All test data referenced to 25℃ ambient.
3. Temperature Rise Current: ΔT 40℃ approximately at I_{rms}.

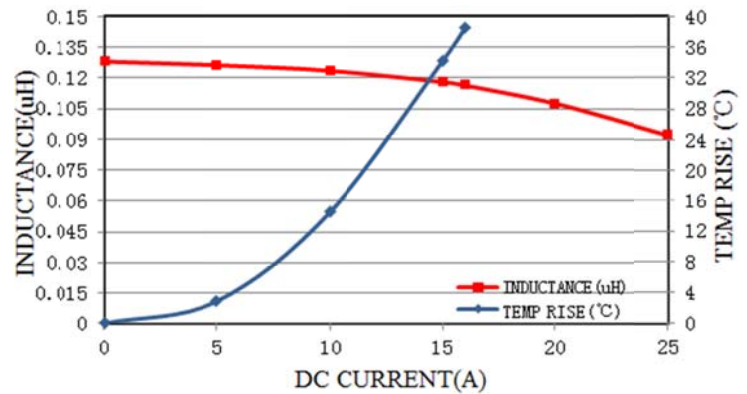
4. Saturation Rated Current: Inductance drop approximately 30% at Isat.
5. Storage temp.: -40°C ~ 85°C.
6. Storage R.H: 20% ~ 75%.
7. Operating temp.: -55°C~ +125°C.
8. Special inquiries besides the above common used types can be met on your requirement.

3. DC Bias Characteristics (Typical)

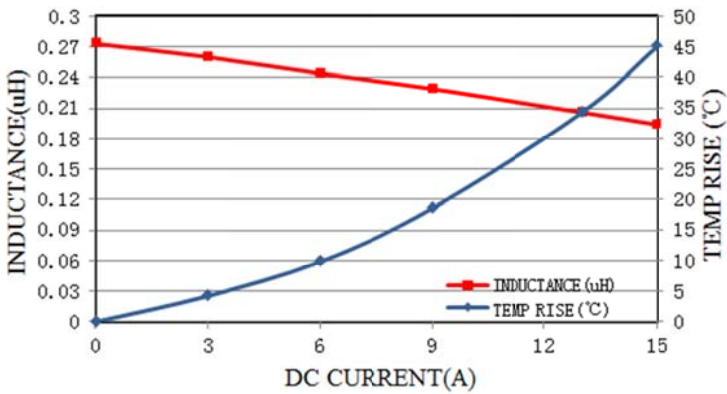
EM-12BM22V01



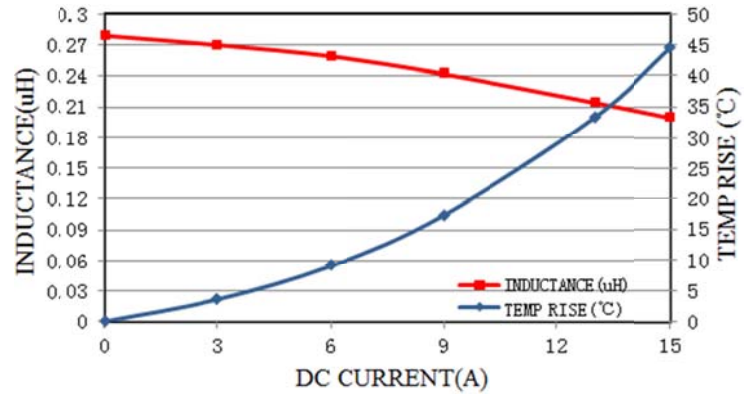
EM-15BM22V06



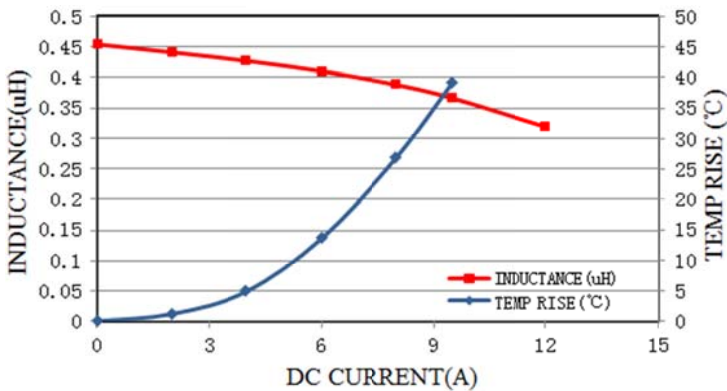
EM-27BM22V01



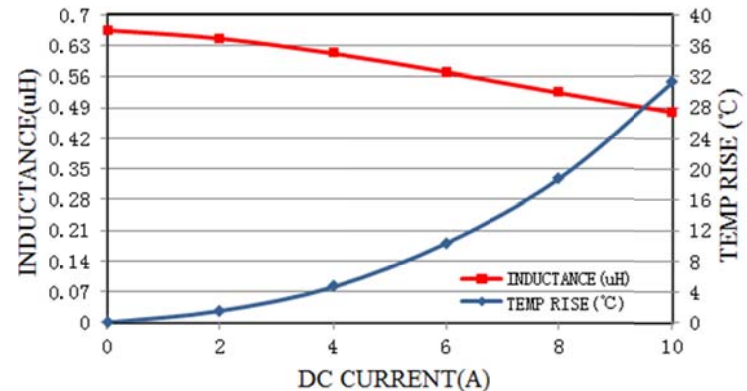
EM-30BM22V01



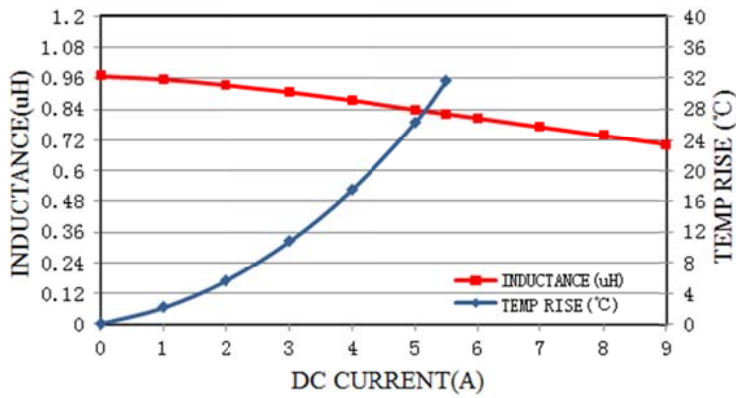
EM-47BM22V06



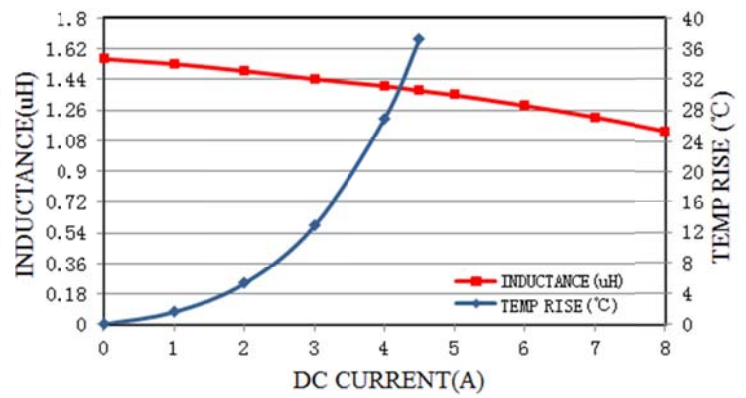
EM-68BM22V01



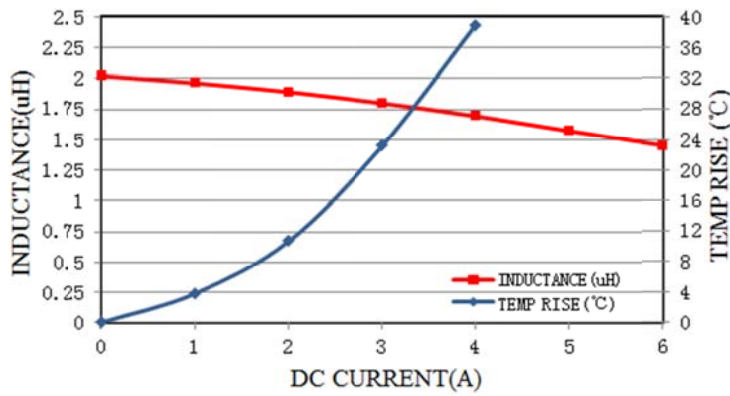
EM-10AM22V04



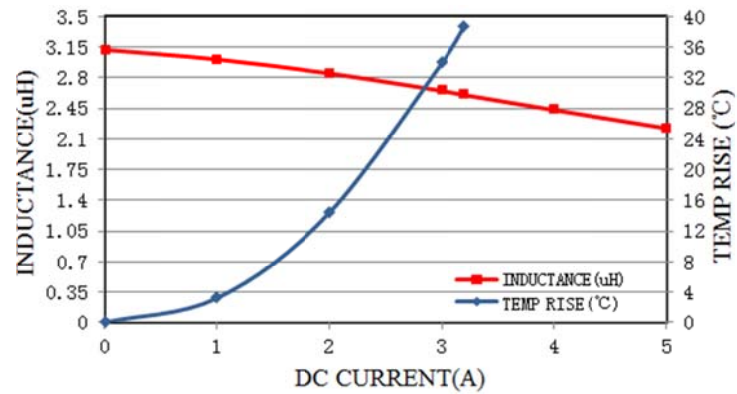
EM-15AM22V03



EM-22AM22V05

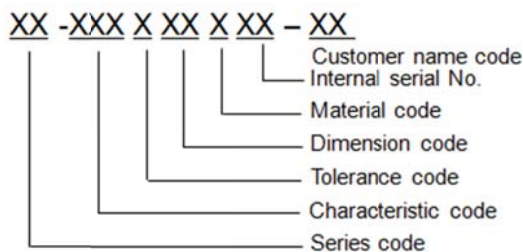
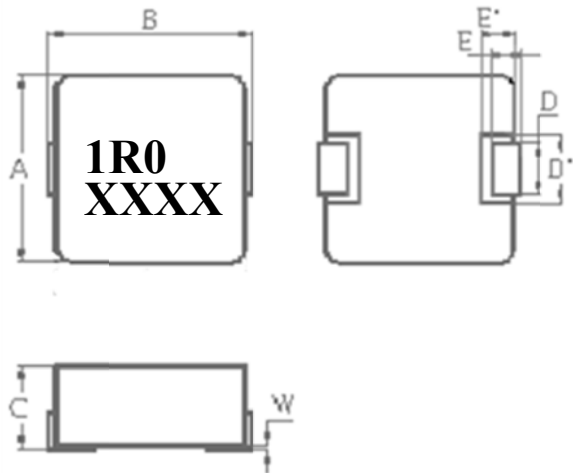


EM-33AM22V01



SMD Alloy Molding Power Inductor EM-26V Series (5518)

1. CONFIGURATIONS & DIMENSIONS



TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%

Code	Dimensions(mm)
A:	5.2 ± 0.3
B:	5.7 ± 0.3
C:	1.6 ± 0.2
E:	1.0 ± 0.5
E':	1.5 ± 0.1
D :	2.2 ± 0.3
D' :	2.6 ± 0.2
W:	0.15 ± 0



SUGGEST PCB PATTERN

2. SPECIFICATIONS

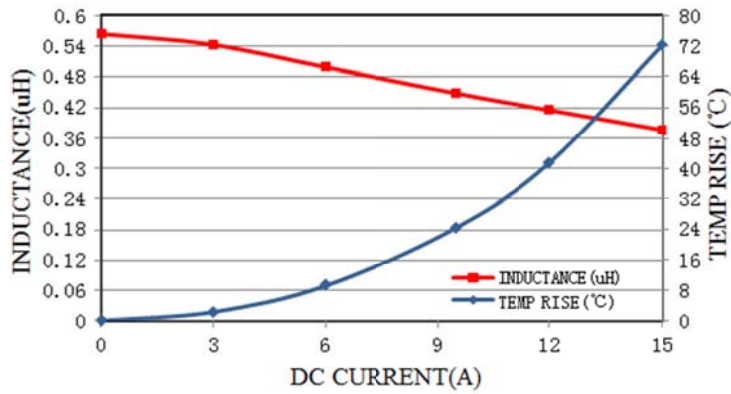
Part Number	Inductance L0(uH)± 20%@0A	I _{rms} (A) typ	I _{sat} (A) typ	DCR(mΩ) @25℃
EM-56BM26V01	0.56	9.5	15	$7.0 \pm 10\%$
EM-10AM26V02	1.00	6.8	10	21max
EM-12AM26V01	1.20	7.5	8	$17 \pm 10\%$
EM-22AM26V02	2.20	5	6	35max
EM-33AM26V01	3.30	4.5	5	$42 \pm 10\%$
EM-47AM26V01	4.70	3.5	4	$74 \pm 10\%$
EM-100M26V01	10.00	2.5	3	155max

Note:

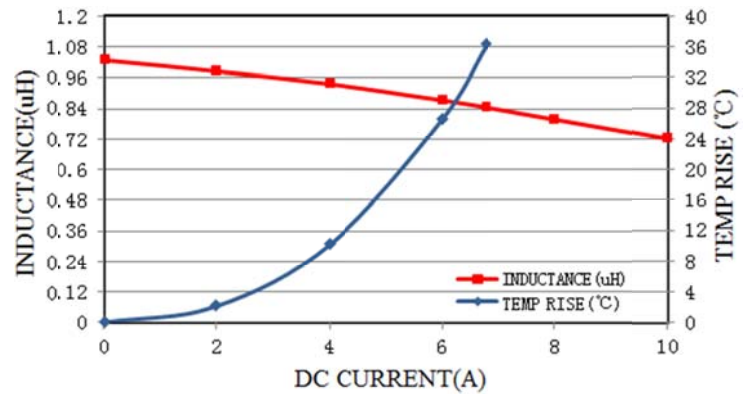
1. Test frequency: L: 100 KHz /1.0v.
2. All test data referenced to 25℃ ambient.
3. Temperature Rise Current: ΔT 40℃ approximately at I_{rms}.
4. Saturation Rated Current: Inductance drop approximately 30% at I_{sat}.
5. Storage temp.: -40℃ ~ 85℃.
6. Storage R.H: 20% ~ 75%.
7. Operating temp.: -55℃ ~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

3. DC Bias Characteristics (Typical)

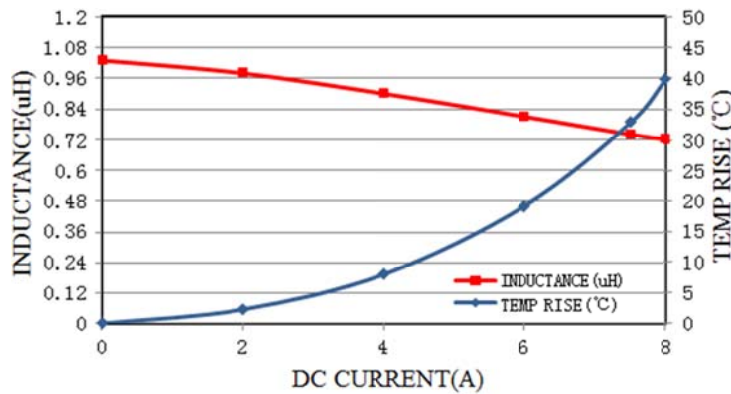
EM-56BM26V01



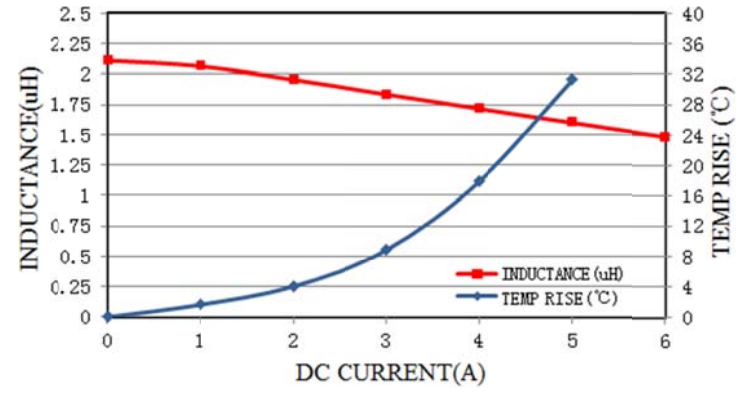
EM-10AM26V02



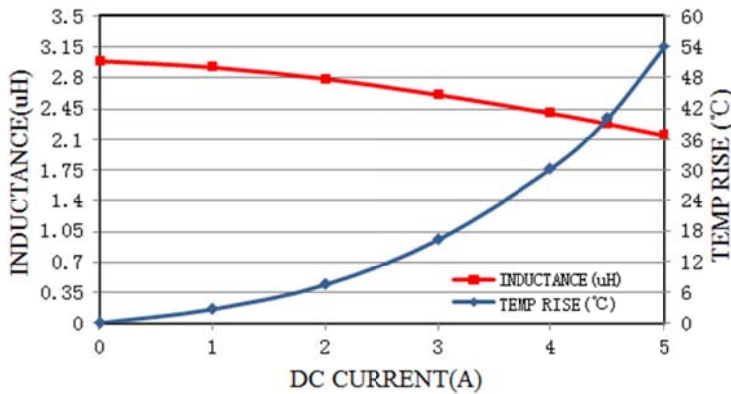
EM-12AM26V01



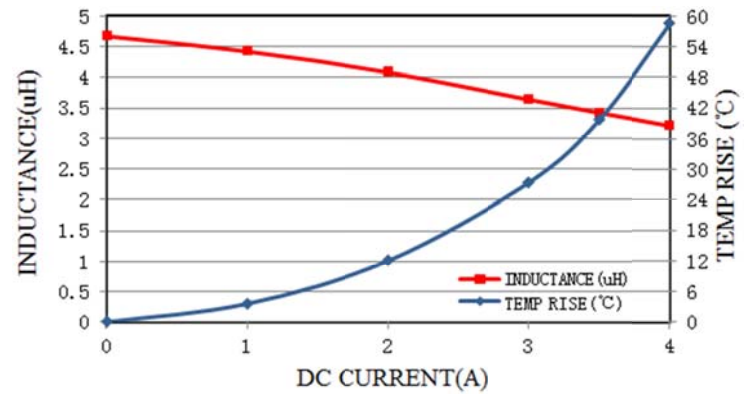
EM-22AM26V02



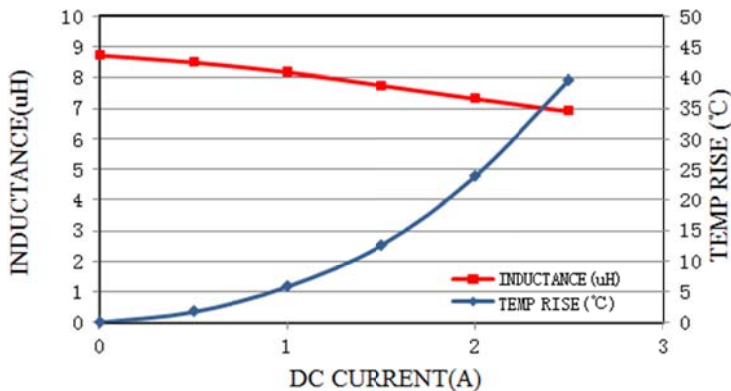
EM-33AM26V01



EM-47AM26V01

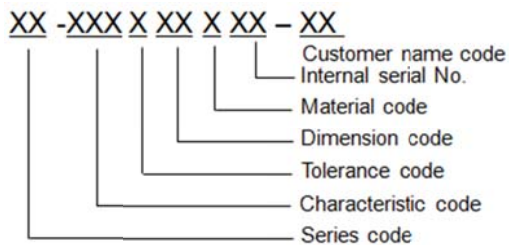
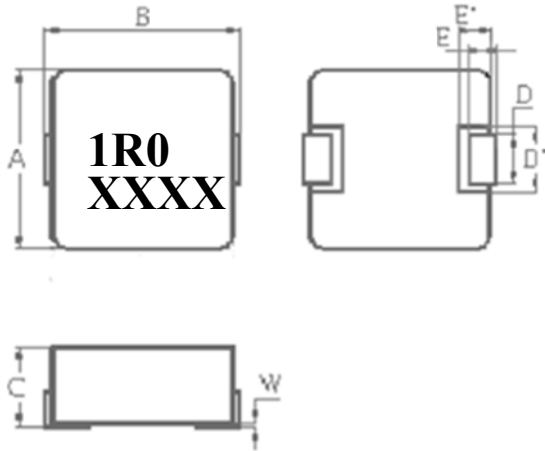


EM-100M26V01



SMD Alloy Molding Power Inductor EM-23V Series (5520)

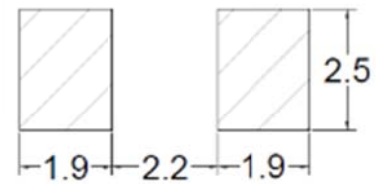
1. CONFIGURATIONS & DIMENSIONS



TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%

Code	Dimensions(mm)
A:	5.2 ± 0.3
B:	5.7 ± 0.3
C:	2.0MAX
E:	1.0 ± 0.5
E':	1.5 ± 0.1
D :	2.2 ± 0.3
D' :	2.6 ± 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°C
EM-15BM23V01	0.15	20	27	2.0max
EM-22BM23V05	0.22	13	30	$4.7 \pm 8\%$
EM-33BM23V03	0.33	12	27	8.2max
EM-47BM23V05	0.47	12.5	18	8.0max
EM-68BM23V01	0.68	10	10	10.8max
EM-10AM23V04	1.00	6.3	15	24max
EM-15AM23V01	1.50	5.5	9.8	30.5max
EM-22AM23V04	2.20	4.3	10	55max
EM-33AM23V01	3.30	4	6	$42 \pm 10\%$
EM-47AM23V02	4.70	3.4	4.1	$74 \pm 8\%$
EM-68AM23V01	6.80	2.3	2.3	150max
EM-120M23V01	12.00	2	3.3	180max

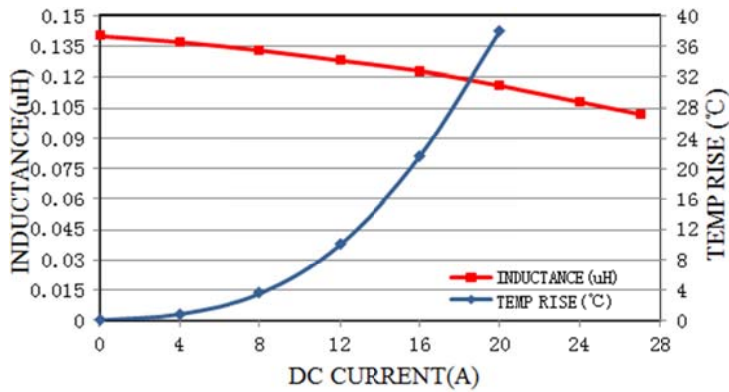
Note:

- Test frequency: L: 100 KHz /1.0v.
- All test data referenced to 25°C ambient.
- Temperature Rise Current: ΔT 40°C approximately at I_{rms}.

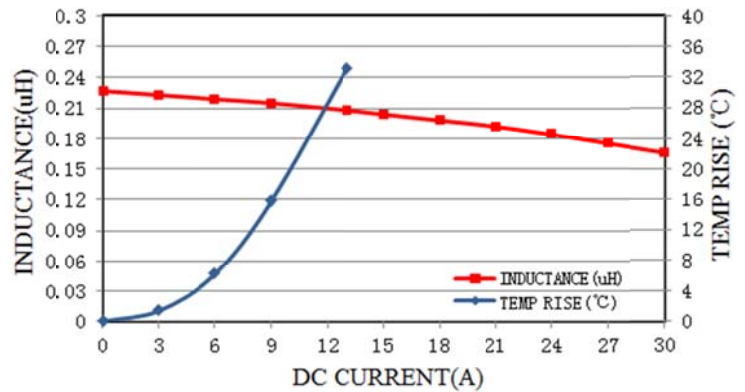
4. Saturation Rated Current: Inductance drop approximately 30% at Isat.
5. Storage temp.: -40°C ~ 85°C.
6. Storage R.H: 20% ~ 75%.
7. Operating temp.: -55°C ~ +125°C.
8. Special inquiries besides the above common used types can be met on your requirement.

3. DC Bias Characteristics (Typical)

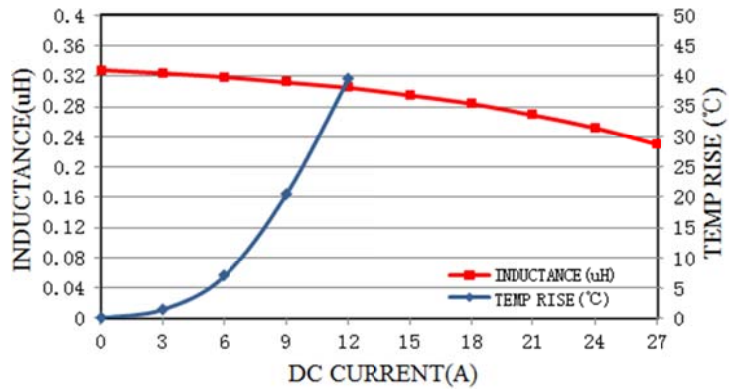
EM-15BM23V01



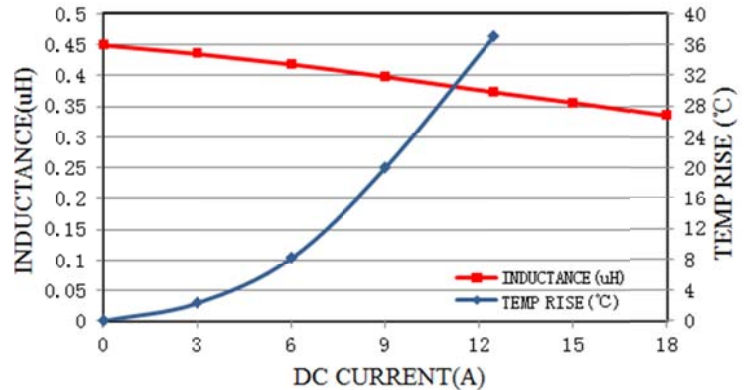
EM-22BM23V05



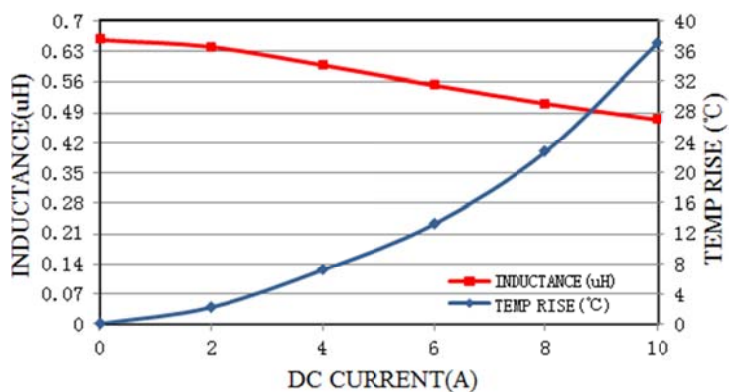
EM-33BM23V03



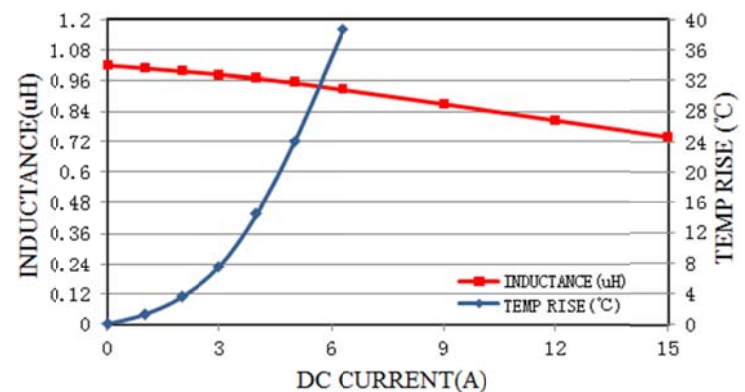
EM-47BM23V05



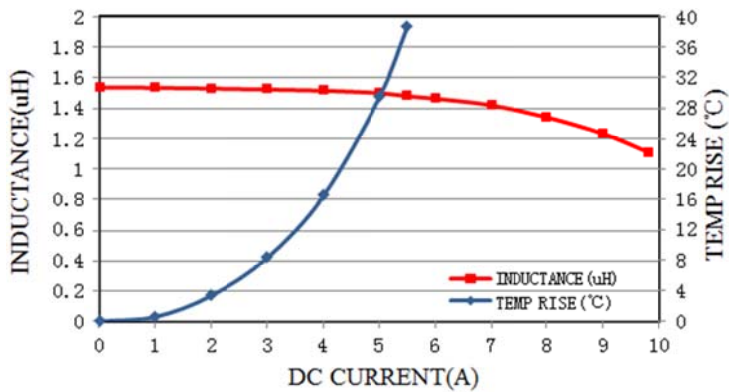
EM-68BM23V01



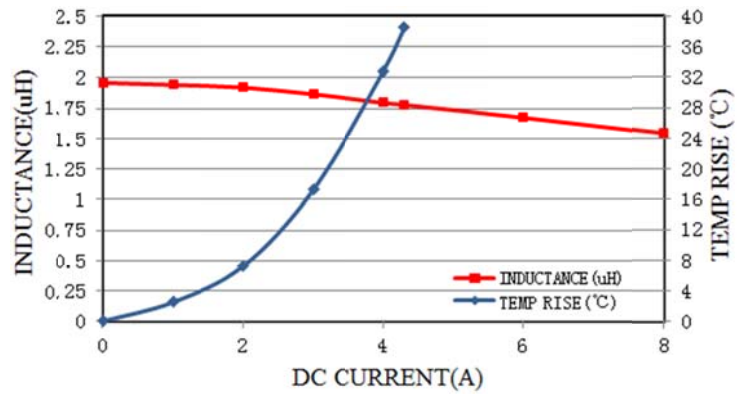
EM-10AM23V04



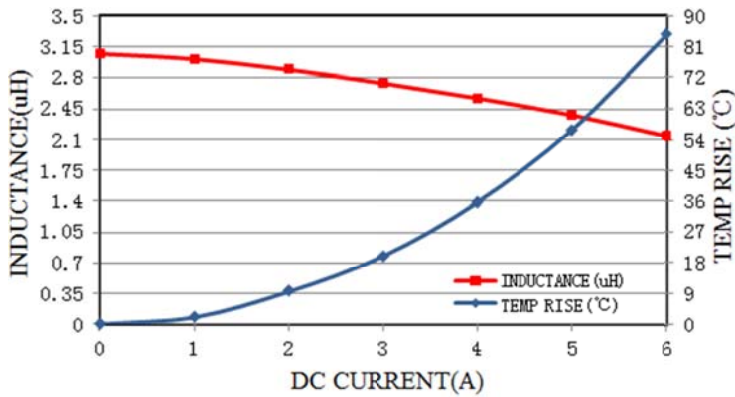
EM-15AM23V01



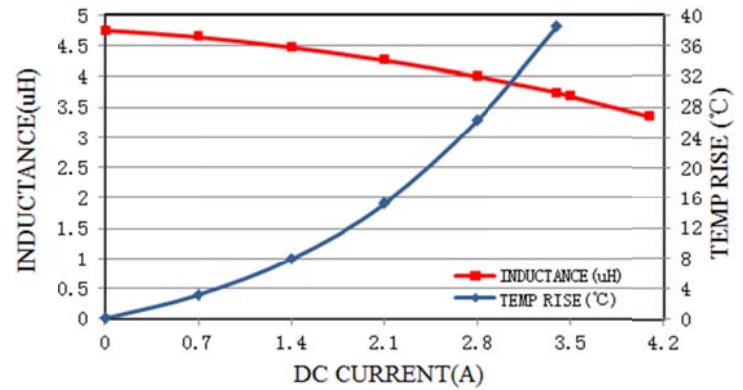
EM-22AM23V04



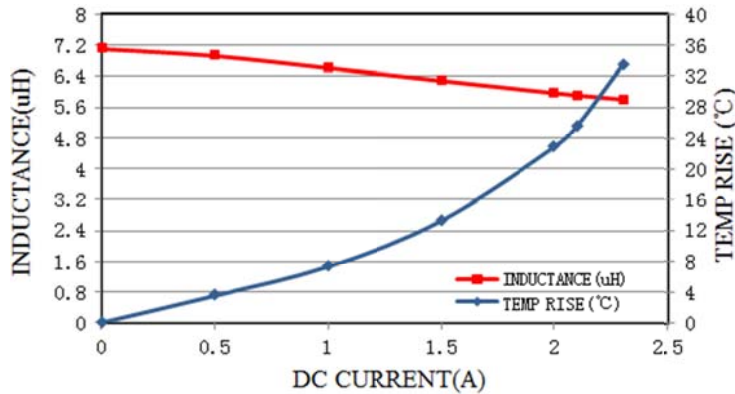
EM-33AM23V01



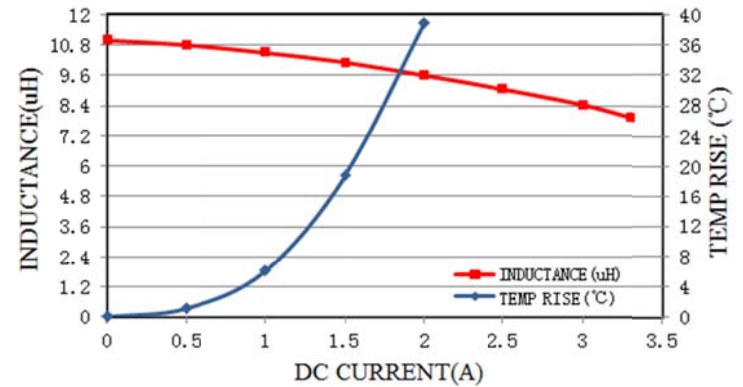
EM-47AM23V02



EM-68AM23V01

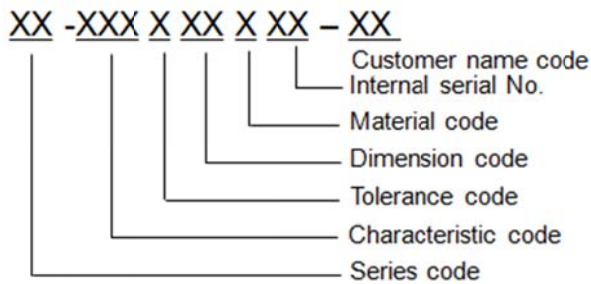
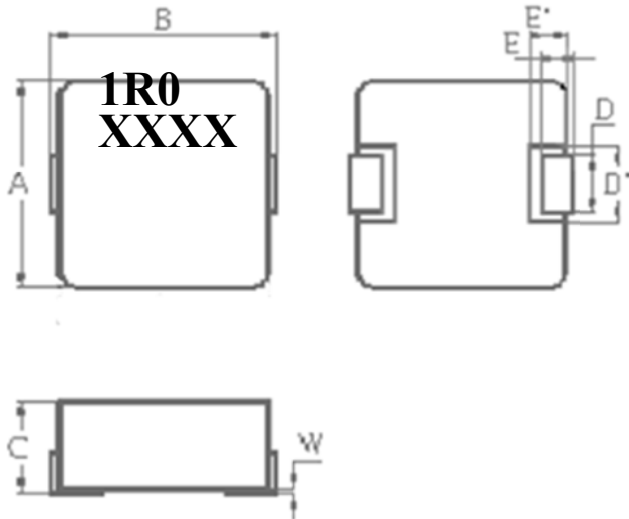


EM-120M23V01



SMD Alloy Molding Power Inductor EM-25V Series (5530):

1. CONFIGURATIONS & DIMENSIONS



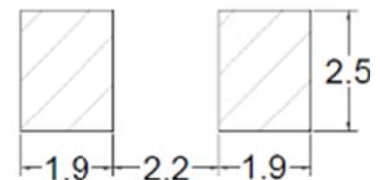
TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%

Code	Dimensions(mm)	
	R10/R15	R22/R33/R35/R47/R60/ R68/R82/1R0/1R5/2R2/ 3R3/4R7/5R6/6R8/150/ 220
A:	5.2±0.3	
B:	5.7±0.3	
C:	3.0MAX	
E:	1.0±0.5	
E':	1.5±0.1	
D :	2.2±0.5	2.2±0.3
D' :	2.6±0.2	
W:	0.15±0	



SUGGEST PCB PATTERN



SUGGEST PCB PATTERN

2. SPECIFICATIONS

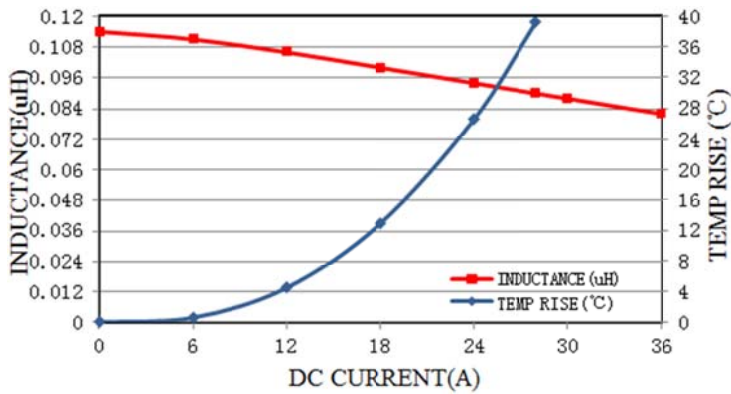
Part Number	Inductance L0(uH)± 20%@0A	Irms(A) typ	Isat(A) typ	DCR(mΩ) @25°C
EM-10BM25V01	0.10	28	36	1.0max
EM-15BM25V01	0.15	21	30	1.45±8%
EM-22BM25V01	0.22	20	32	1.78±10%
EM-33BM25V02	0.33	16	20	2.1±10%
EM-35BM25V01	0.35	15	20	4.3max
EM-47BM25V03	0.47	12.5	17	6.0max
EM-60BM25V01	0.60	11	20	10max
EM-68BM25V01	0.68	8.5	14	9.3±10%
EM-82BM25V01	0.82	8.5	12.5	13max
EM-10AM25V06	1.00	8.8	12.5	11.5max
EM-15AM25V01	1.50	6	10	25max
EM-22AM25V05	2.20	6.3	10.5	24max
EM-33AM25V03	3.30	4.4	8.5	54max
EM-47AM25V03	4.70	4	6	60max
EM-56AM25V01	5.60	3.8	5.5	63max
EM-68AM25V01	6.80	3	5	110max
EM-150M25V02	15.00	2.4	3.2	174max
EM-220M25V01	22.00	1.9	2	260max

Note:

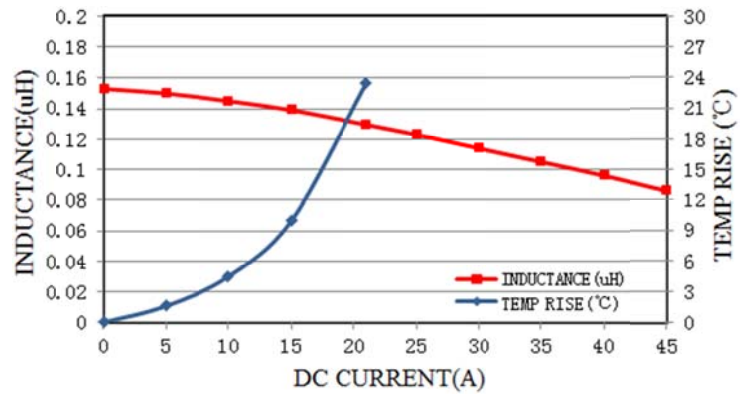
1. Test frequency: L: 100 KHz /1.0v.
2. All test data referenced to 25°C ambient.
3. Temperature Rise Current: ΔT 40°C approximately at Irms.
4. Saturation Rated Current: Inductance drop approximately 30% at Isat.
5. Storage temp.: -40°C ~ 85°C.
6. Storage R.H: 20% ~ 75%.
7. Operating temp.: -55°C ~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

3. DC Bias Characteristics (Typical)

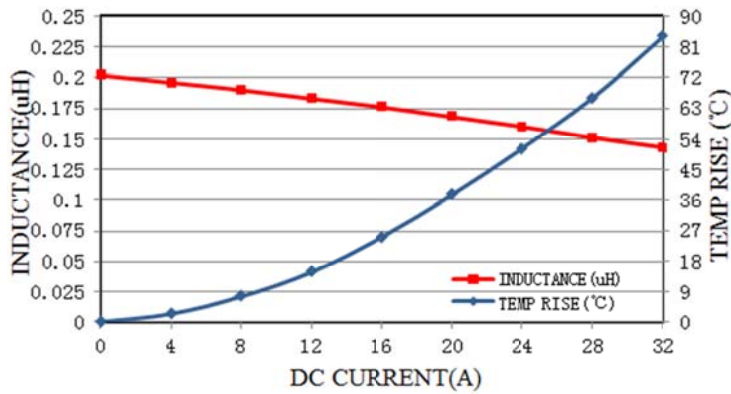
EM-10BM25V01



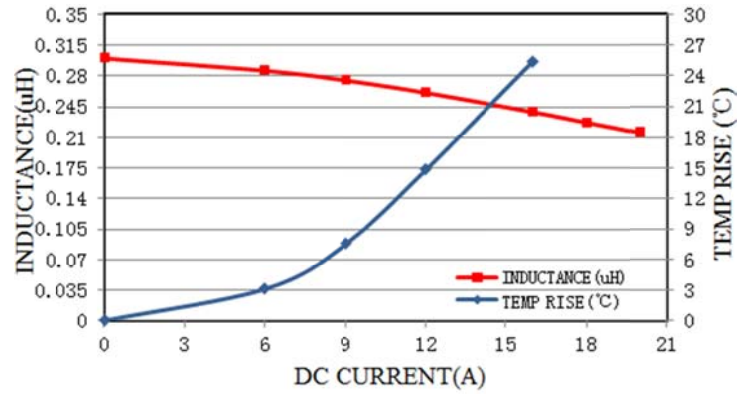
EM-15BM25V01



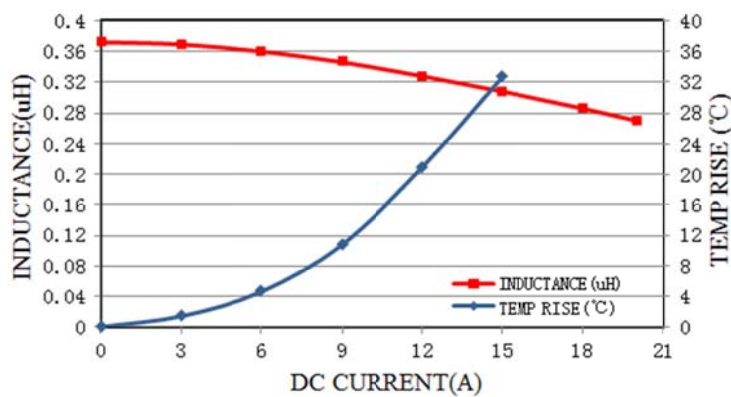
EM-22BM25V01



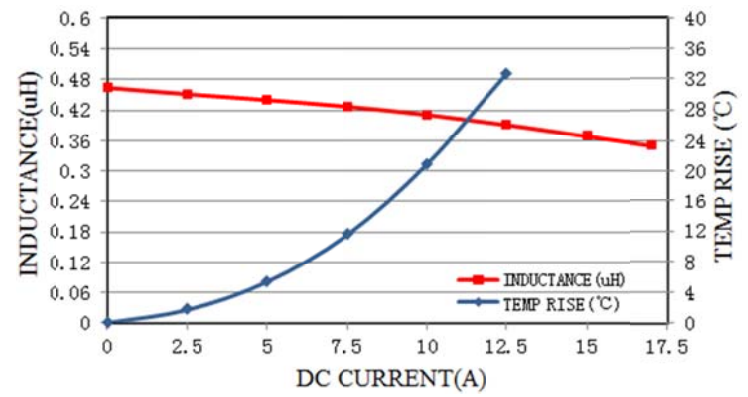
EM-33BM25V02



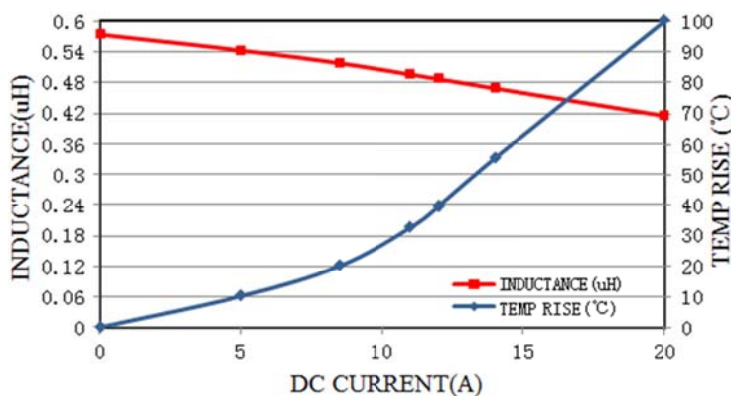
EM-35BM25V01



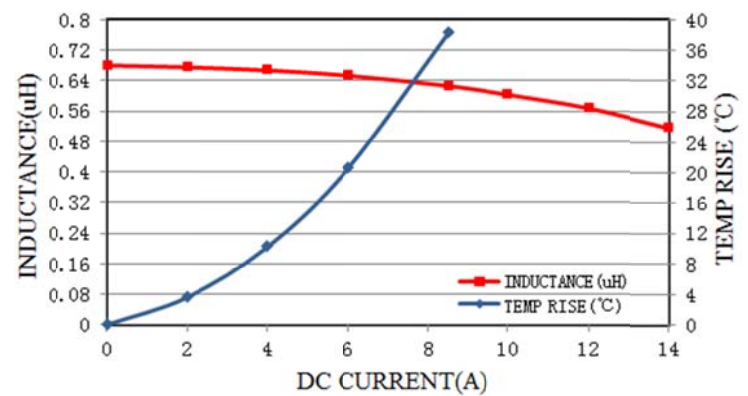
EM-47BM25V03



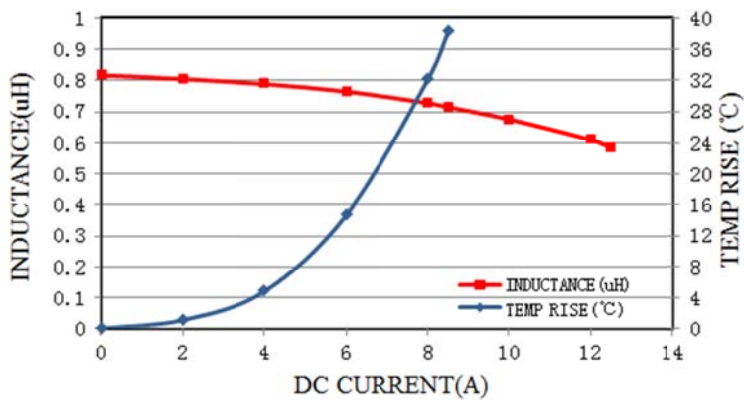
EM-60BM25V01



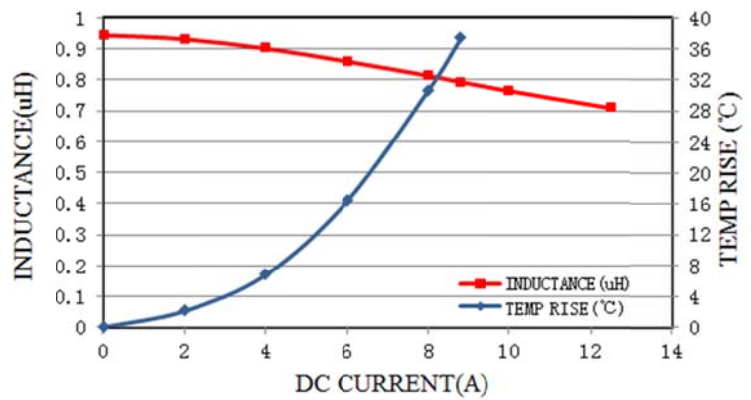
EM-68BM25V01



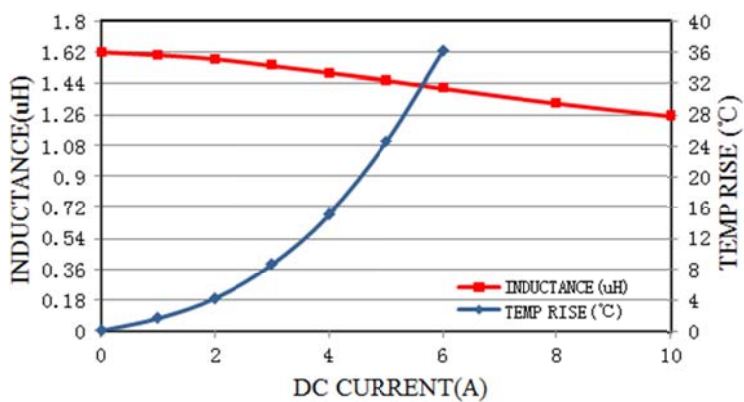
EM-82BM25V01



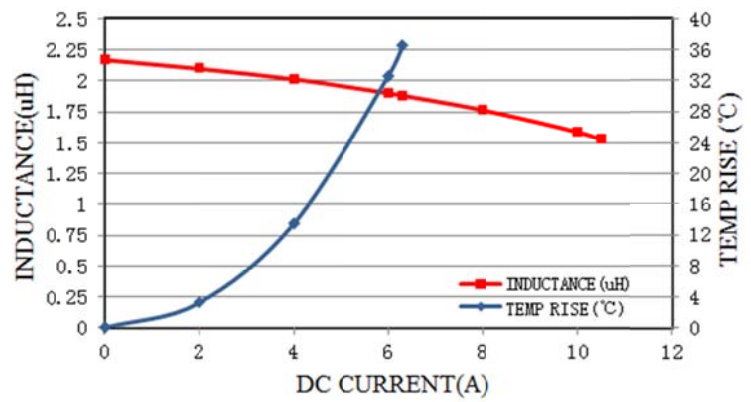
EM-10AM25V06



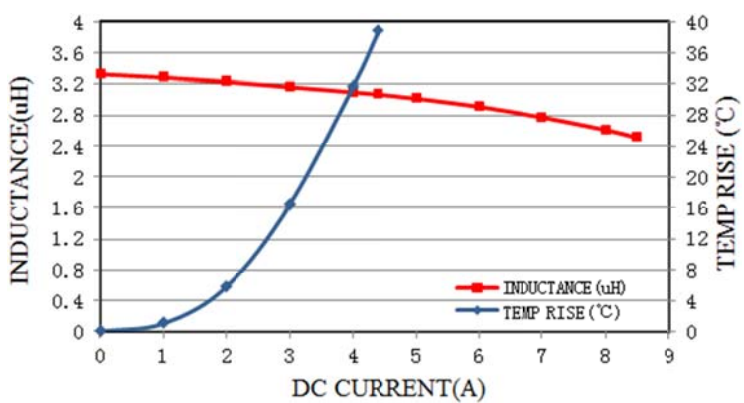
EM-15AM25V01



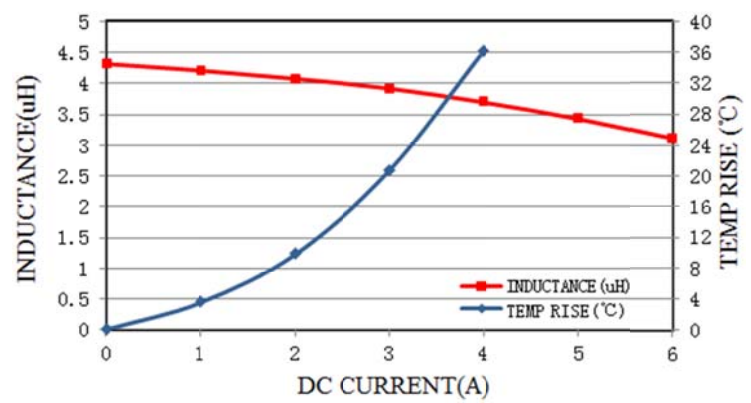
EM-22AM25V05



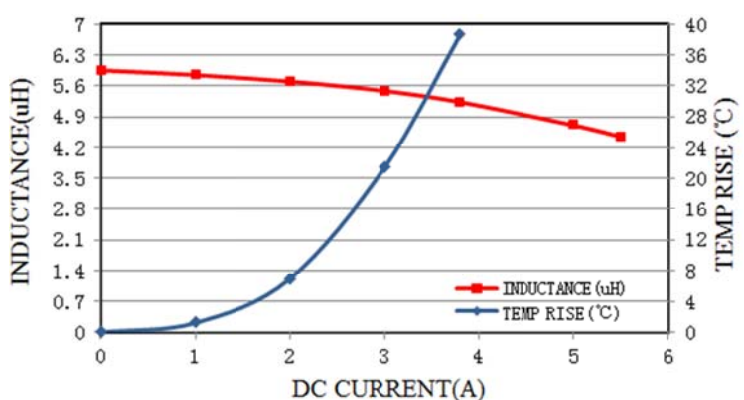
EM-33AM25V03



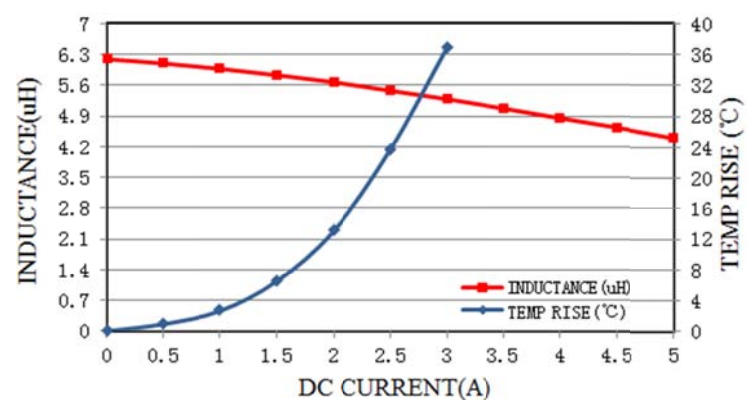
EM-47AM25V03



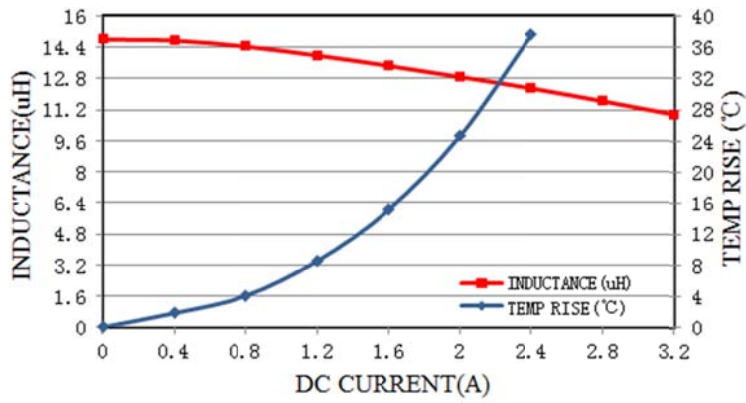
EM-56AM25V01



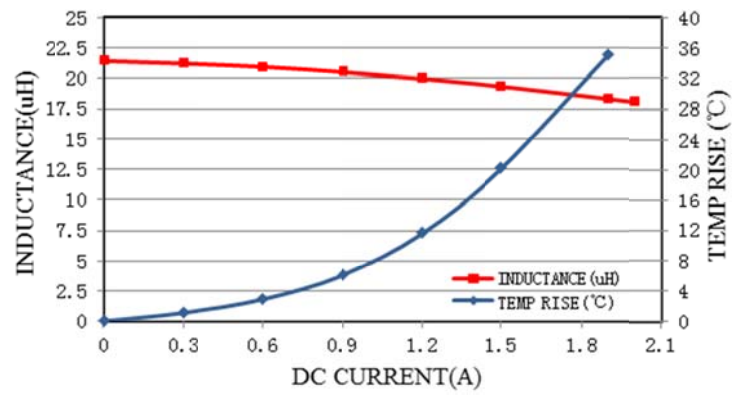
EM-68AM25V01



EM-150M25V02

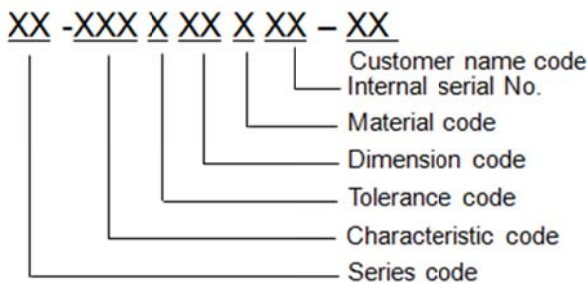
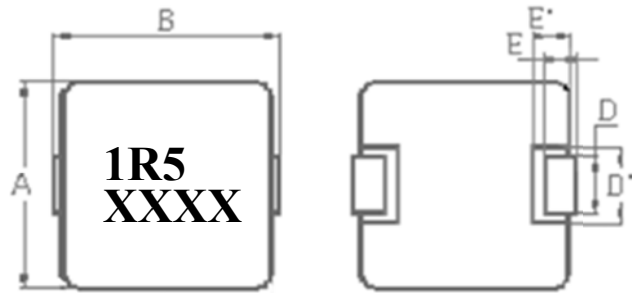


EM-220M25V01



SMD Alloy Molding Power Inductor EM-36V Series (5540)

1. CONFIGURATIONS & DIMENSIONS



TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%

Code	Dimensions(mm)	
	R24	1R5/2R2
A:	5.2±0.3	
B:	5.7±0.3	
C:	4.0MAX	3.9MAX
E:	1.0±0.5	
E':	1.5±0.1	
D :	2.2±0.3	
D' :	2.6±0.2	
W:	0.15+0	



SUGGEST PCB PATTERN

2. SPECIFICATIONS

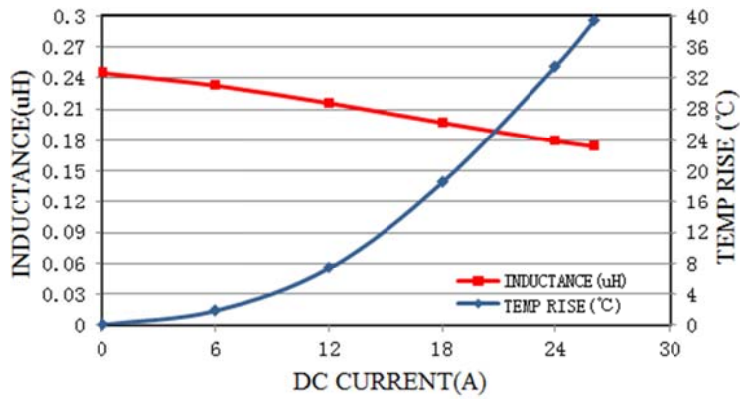
Part Number	Inductance L0(uH)± 20%@0A	Irms(A) typ	Isat(A) typ	DCR(mΩ) @25°C
EM-24BM36V01	0.24	26	26	1.8±10%
EM-15AM36V01	1.50	8	14	15.2max
EM-22AM36V01	2.20	7.5	14	18.5max

Note:

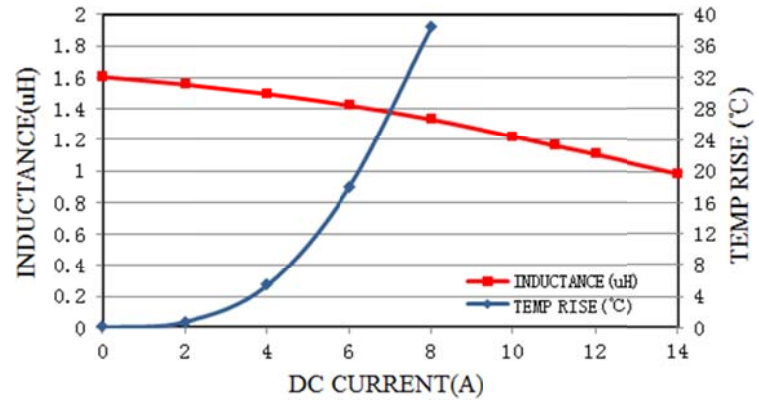
- Test frequency: L: 100 KHz /1.0v.
- All test data referenced to 25°C ambient.
- Temperature Rise Current: ΔT 40°C approximately at Irms.
- Saturation Rated Current: Inductance drop approximately 30% at Isat.
- Storage temp.: -40°C ~ 85°C.
- Storage R.H: 20% ~ 75%.
- Operating temp.: -55°C~ +125°C.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

3. DC Bias Characteristics (Typical)

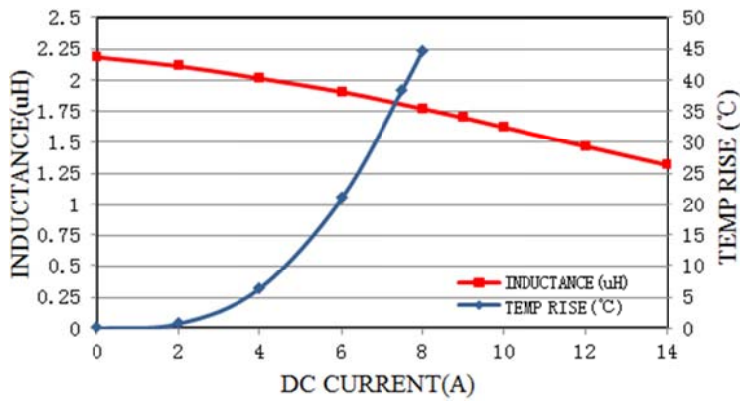
EM-24BM36V01



EM-15AM36V01

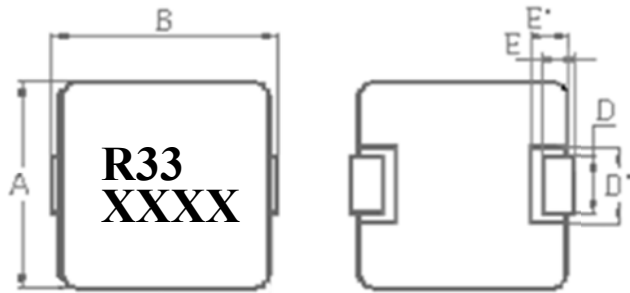


EM-22AM36V01



SMD Alloy Molding Power Inductor EM-49V Series (5550)

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:	5.2 ± 0.3
B:	5.7 ± 0.3
C:	5.0MAX
E:	1.0 ± 0.5
E':	1.5 ± 0.1
D :	2.2 ± 0.3
D' :	2.6 ± 0.2
W:	0.15 ± 0



SUGGEST PCB PATTERN

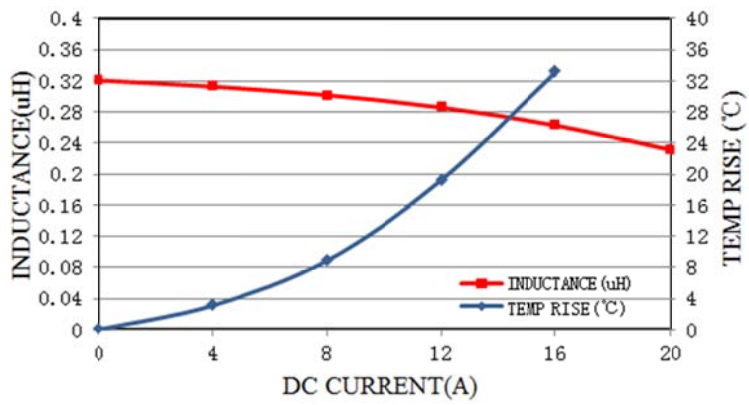
2. SPECIFICATIONS

Part Number	Inductance L0(uH) ± 20% @0A	Irms(A) typ	Isat(A) typ	DCR(mΩ) @25°C
EM-33BM49V01	0.33	16	20	$1.85 \pm 10\%$

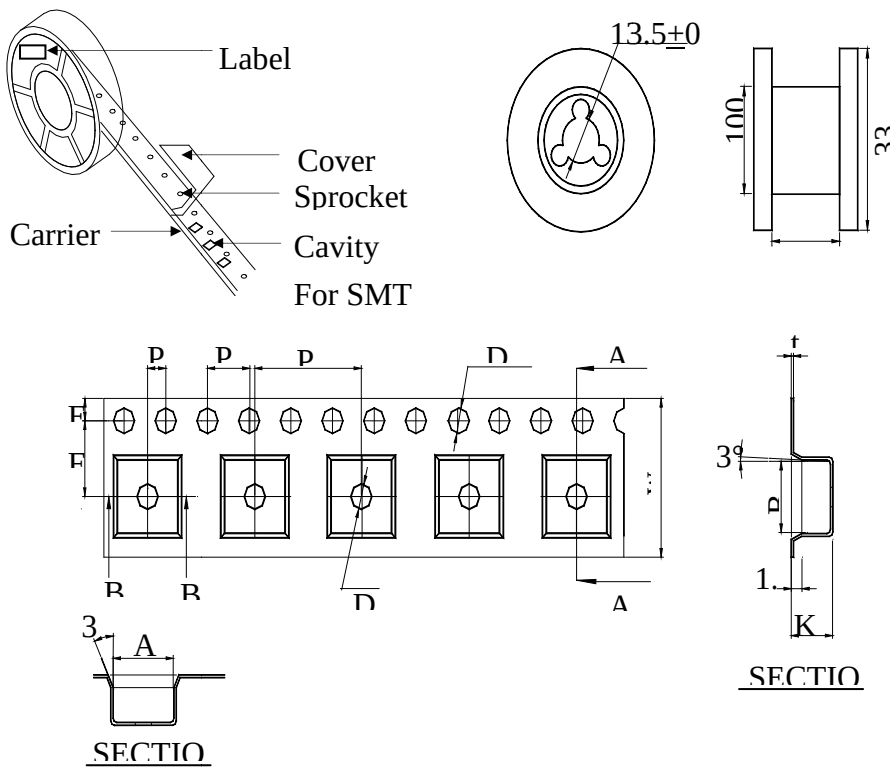
Note:

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.

EM-33BM49V01



六、PACKAGING SPECIFICATION FOR SMD POWER INDUCTORS (unit: mm)



	Chip / Reel
5512/EM-21V	2000 pcs
5515/EM-22V	2000 pcs
5518/EM-26V	1000 pcs
5520/EM-23V	1000 pcs
5530/EM-25V	1000pcs
5540/EM-36V	1000pcs
5550/EM-49V	1000pcs

	W	P	E	F	A0	B0	K0	t
5512/ EM-21V	16.0+0.10/-0.30	12.0±0.10	1.75±0.10	7.50±0.10	5.6±0.10	6.0±0.10	1.7±0.10	0.35±0.05
5515/ EM-22V	16.0+0.10/-0.30	12.0±0.10	1.75±0.10	7.50±0.10	5.6±0.10	6.0±0.10	1.7±0.10	0.35±0.05
5518/ EM-26V	16.0+0.10/-0.30	12.0±0.10	1.75±0.10	7.50±0.10	5.55±0.10	6.1±0.10	2.3±0.10	0.35±0.05
5520/ EM-23V	16.0+0.10/-0.30	12.0±0.10	1.75±0.10	7.50±0.10	5.55±0.10	6.1±0.10	2.3±0.10	0.35±0.05
5530/ EM-25V	16.0+0.10/-0.30	12.0±0.10	1.75±0.10	7.50±0.10	5.7±0.10	6.1±0.10	3.3±0.10	0.35±0.05
5540/ EM-36V	16.0+0.10/-0.30	12.0±0.10	1.75±0.10	7.50±0.10	5.5±0.10	6.1±0.10	4.4±0.10	0.35±0.05
5550/ EM-49V	16.0+0.10/-0.30	12.0±0.10	1.75±0.10	7.50±0.10	5.7±0.10	6.1±0.10	5.3±0.10	0.40±0.05