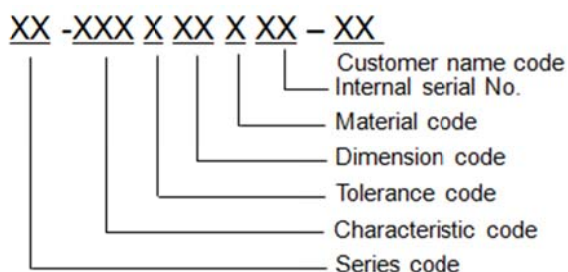
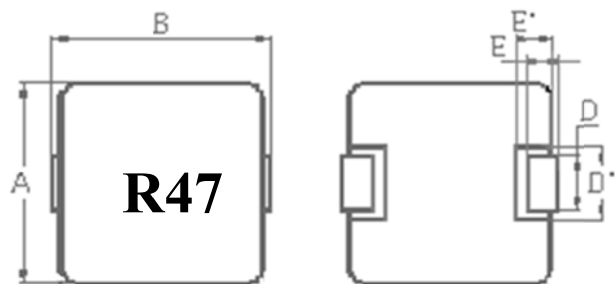


SMD Alloy Molding Power Inductor EM-24V Series (0412)

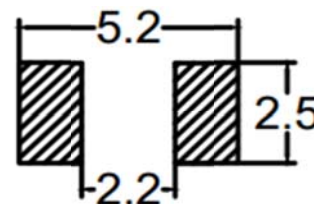
1. CONFIGURATIONS & DIMENSIONS



TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%

Code	Dimensions(mm)
A:	4.0±0.2
B:	4.2±0.3
C:	1.2MAX
E:	0.8±0.3
E':	1.0±0.1
D :	1.5±0.3
D' :	2.2±0.2
W:	0.15±0



SUGGEST PCB PATTERN

2. SPECIFICATIONS

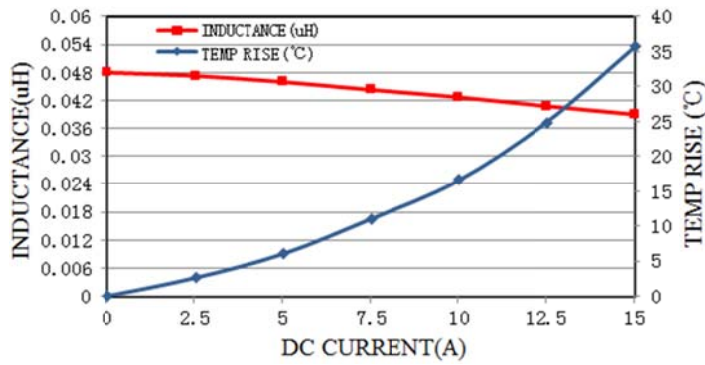
Part Number	Inductance L0(uH)± 20%@0A	Irms(A) typ	Isat(A) typ	DCR(mΩ) @25℃
EM-47CM24V01	0.047	15	15	3.3max
EM-47BM24V01	0.47	6	6	20max
EM-60BM24V01	0.60	5	5	30max
EM-47AM24V02	4.70	2	2.5	145max
EM-68AM24V01	6.80	1.5	1.7	360max
EM-100M24V01	10.00	1.3	1.4	463max

Note:

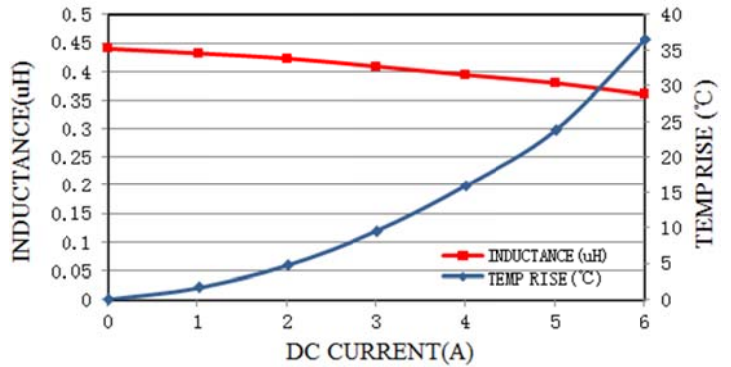
1. Test frequency: L: 100 KHz /1.0v.
2. All test data referenced to 25℃ ambient.
3. Temperature Rise Current: ΔT 40℃ approximately at Irms.
4. Saturation Rated Current: Inductance drop approximately 30% at Isat.
5. Storage temp.: -40℃ ~ 85℃.
6. Storage R.H: 20% ~ 75%.
7. Operating temp.: -55℃ ~ +125℃.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

3. DC Bias Characteristics (Typical)

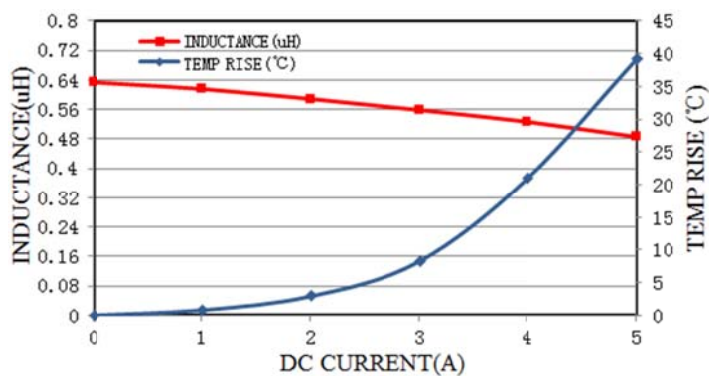
EM-47CM24V01



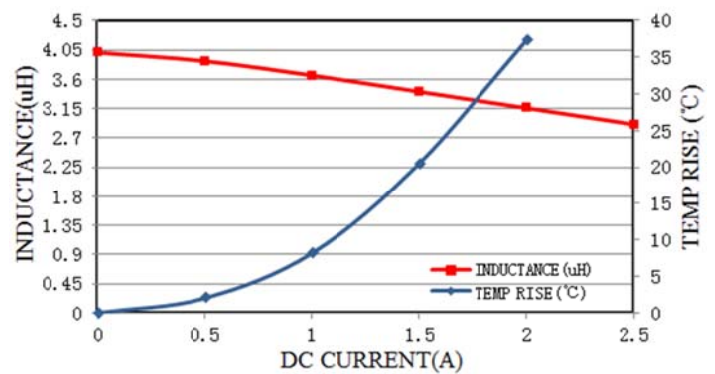
EM-47BM24V01



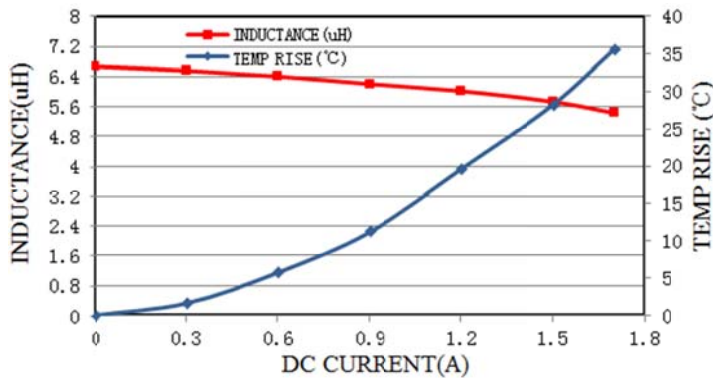
EM-60BM24V01



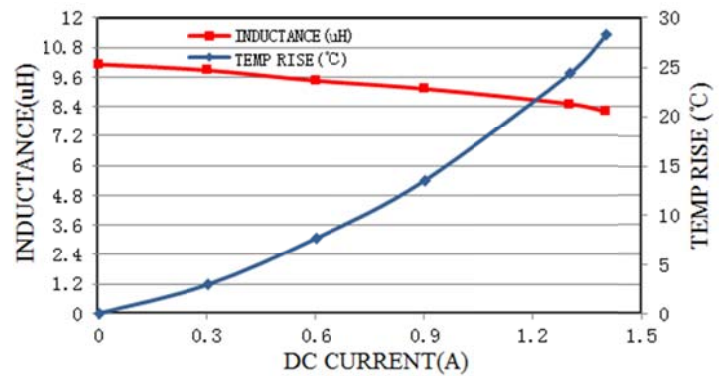
EM-47AM24V02



EM-68AM24V01

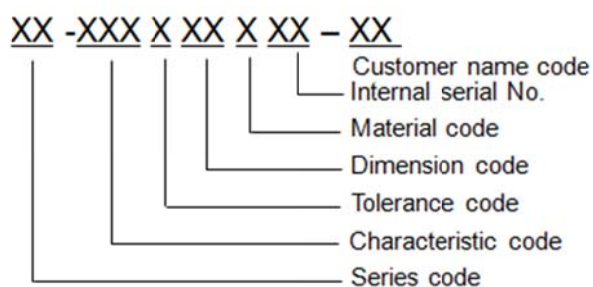
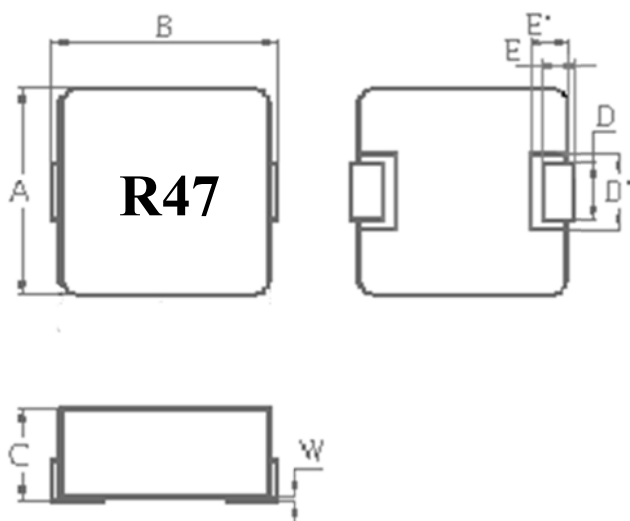


EM-100M24V01



SMD Alloy Molding Power Inductor EM-01V Series(0420)

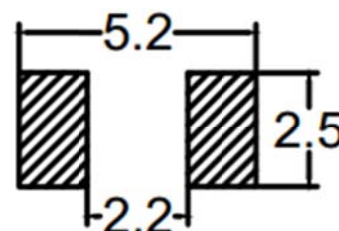
1. CONFIGURATIONS & DIMENSIONS



TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%

Code	Dimensions(mm)
A:	4.0±0.2
B:	4.2±0.3
C:	2.0MAX
E:	0.8±0.3
E':	1.0±0.1
D :	1.5±0.3
D' :	2.2±0.2
W:	0.15+0



SUGGEST PCB PATTERN

2. SPECIFICATIONS

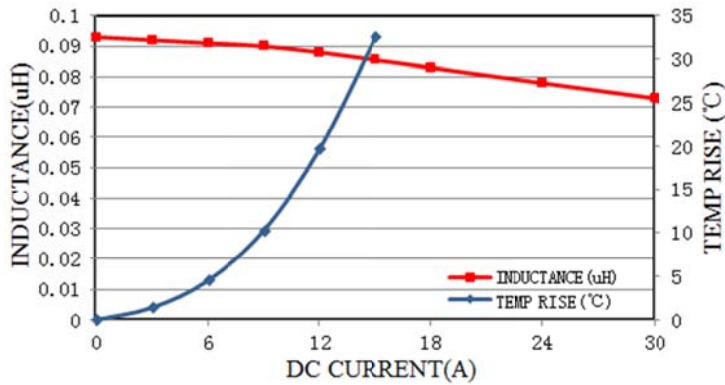
Part Number	Inductance L0(uH)± 20%@0A	Irms(A) typ	Isat(A) typ	DCR(mΩ) @25°C
EM-10BM01V02	0.10	15	30	2.9±10%
EM-15BM01V01	0.15	11	17	3.4±10%
EM-22BM01V02	0.22	10	13	5.2±10%
EM-27BM01V01	0.27	10	13	5.2±10%
EM-33BM01V01	0.33	8.5	8.5	11max
EM-47BM01V01	0.47	8	13	9.2±10%
EM-56BM01V01	0.56	7	9	13.64±10%
EM-68BM01V01	0.68	7.5	10	11.5±10%
EM-10AM01V01	1.00	5.3	8.5	21±10%
EM-12AM01V02	1.20	5.2	6.5	24±10%
EM-15AM01V03	1.50	4	6	46max
EM-18AM01V01	1.80	4.5	5	33.5±10%
EM-22AM01V01	2.20	4	5.5	40±10%
EM-25AM01V01	2.50	4	5	44±10%
EM-33AM01V01	3.30	3.5	4.5	53±10%
EM-47AM01V01	4.70	2.8	3.8	115max
EM-56AM01V01	5.60	2.8	3.5	130max
EM-68AM01V01	6.80	2.1	2.3	150max
EM-100M01V01	10.00	1.5	2.4	240max

Note:

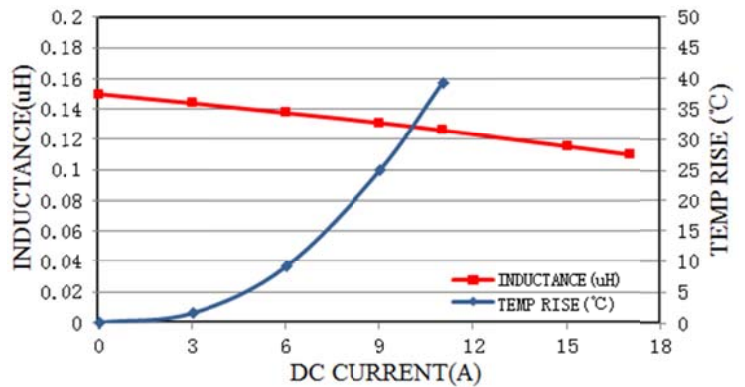
1. Test frequency: L: 100 KHz /1.0v.
2. All test data referenced to 25°C ambient.
3. Temperature Rise Current: ΔT 40°C approximately at Irms.
4. Saturation Rated Current: Inductance drop approximately 30% at Isat.
5. Storage temp.: -40°C ~ 85°C.
6. Storage R.H: 20% ~ 75%.
7. Operating temp.: -55°C~ +125°C.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

3. DC Bias Characteristics (Typical)

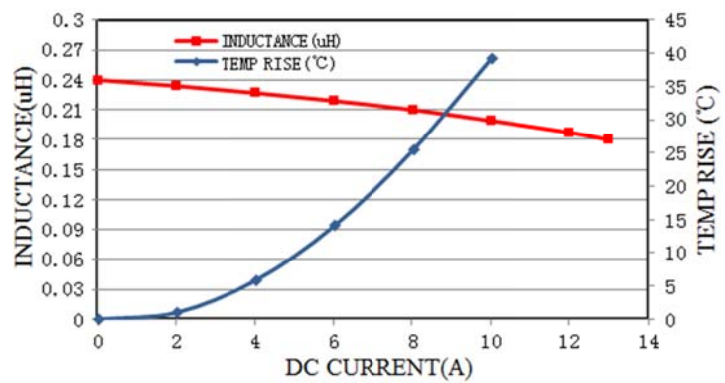
EM-10BM01V02



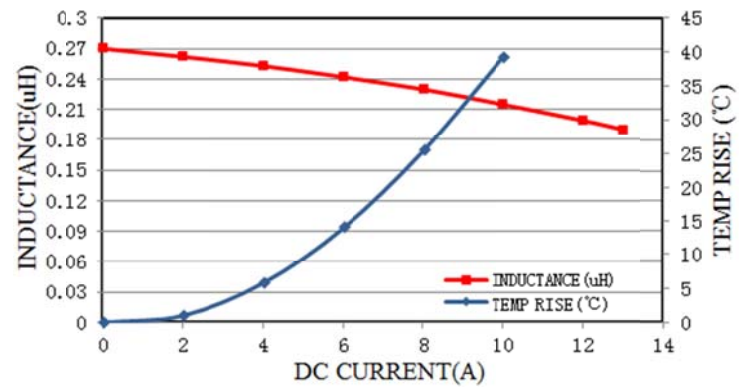
EM-15BM01V01



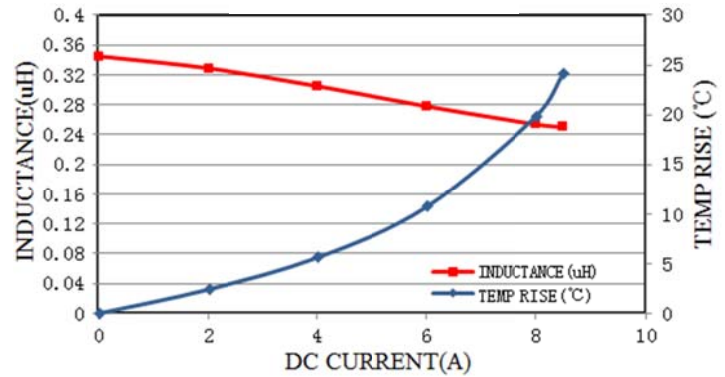
EM-22BM01V02



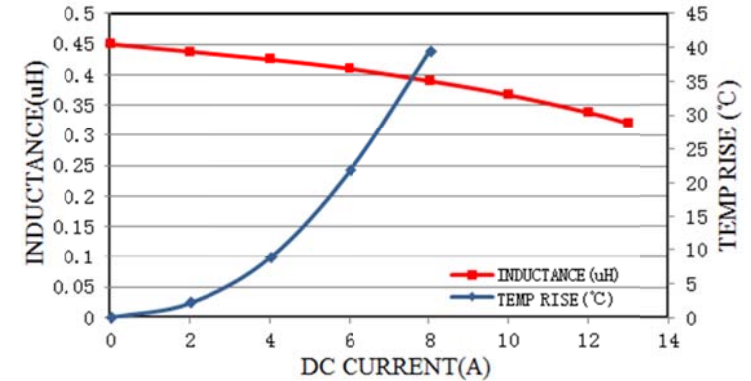
EM-27BM01V01



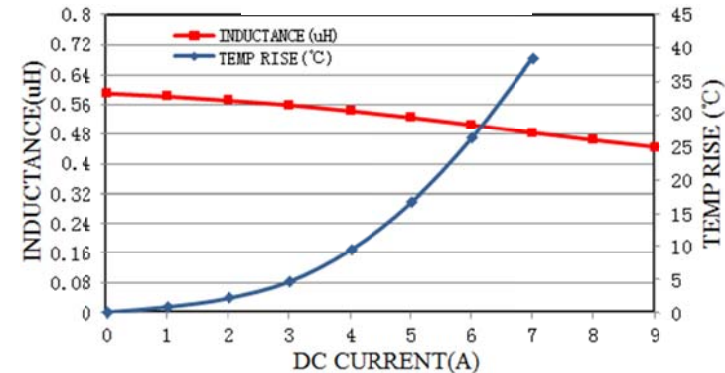
EM-33BM01V01



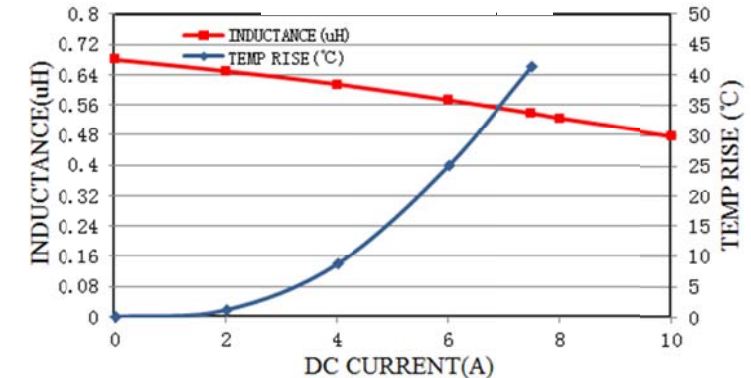
EM-47BM01V01



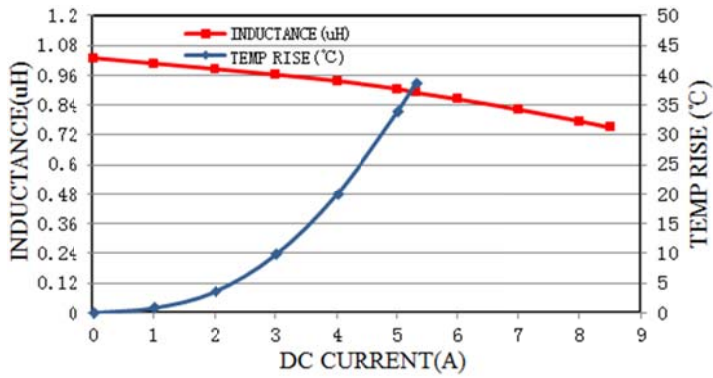
EM-56BM01V01



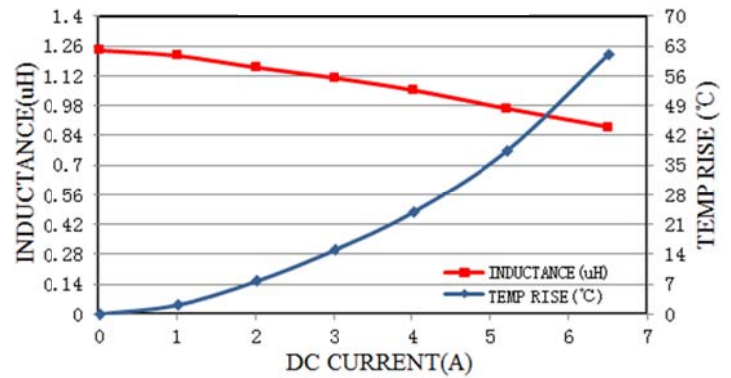
EM-68BM01V01



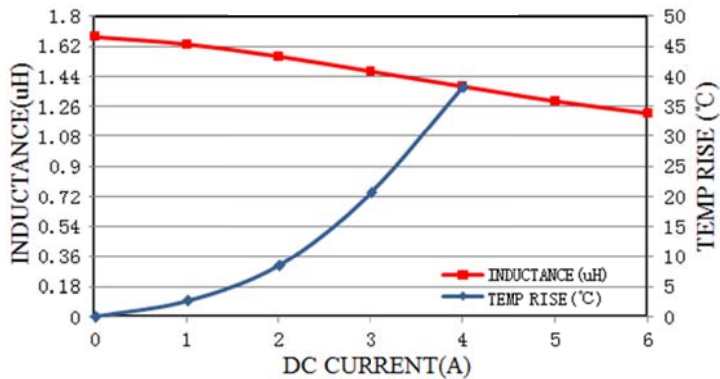
EM-10AM01V01



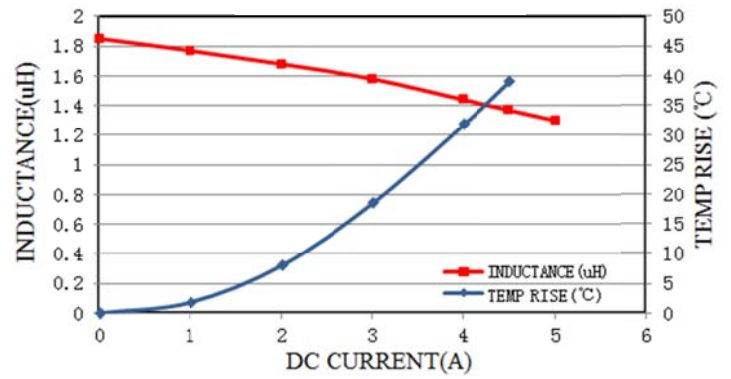
EM-12AM01V02



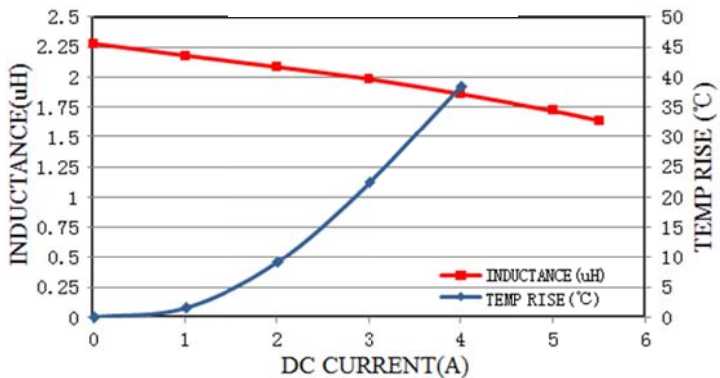
EM-15AM01V03



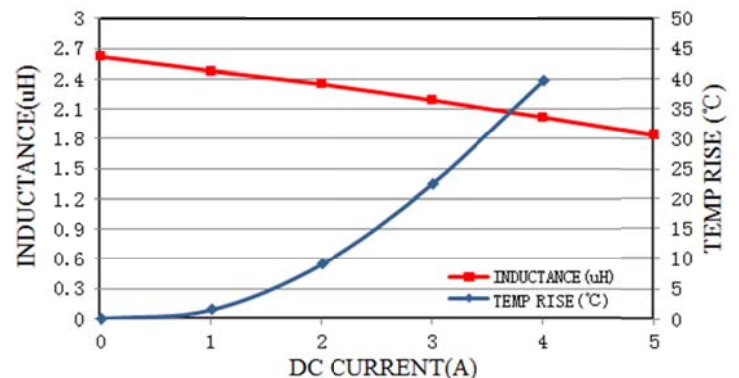
EM-18AM01V01



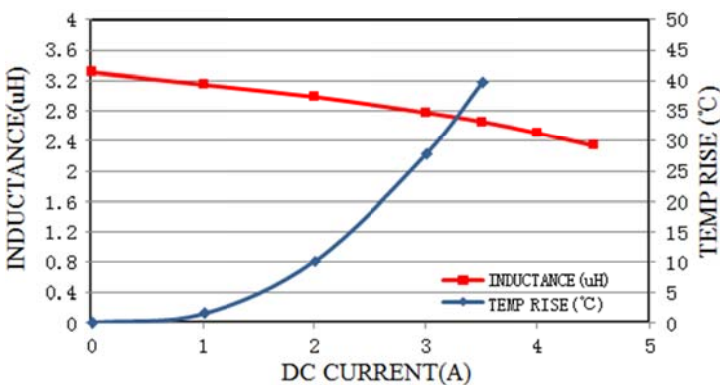
EM-22AM01V01



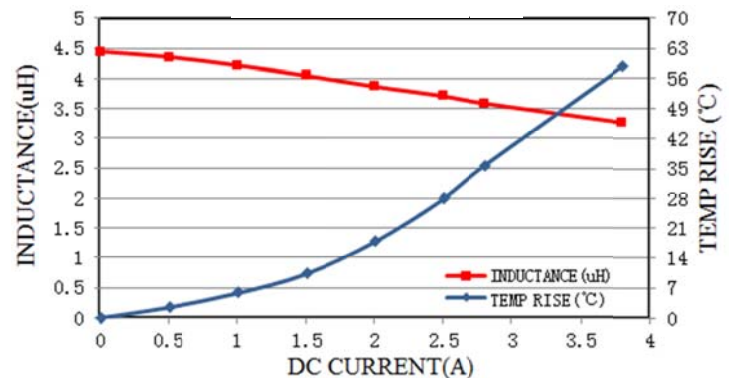
EM-25AM01V01



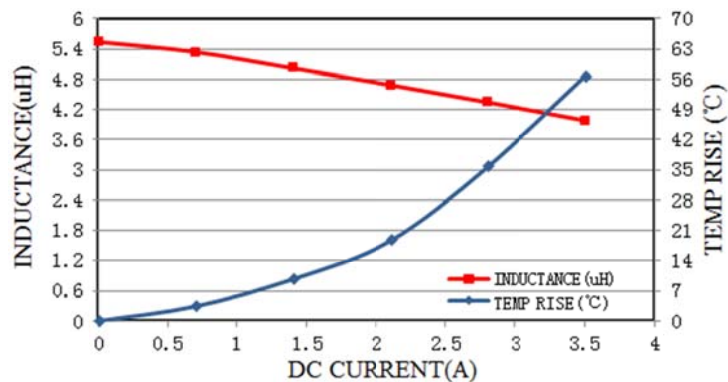
EM-33AM01V01



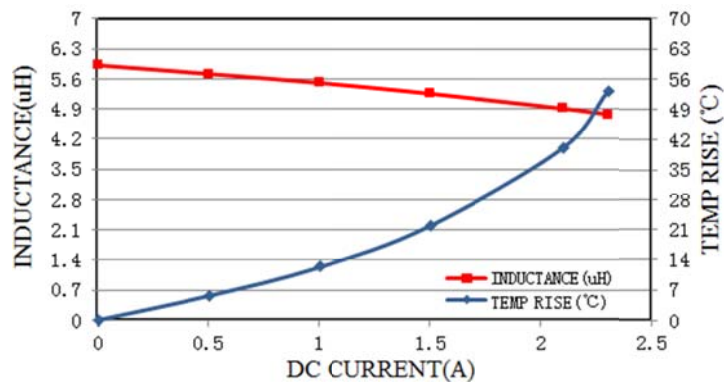
EM-47AM01V01



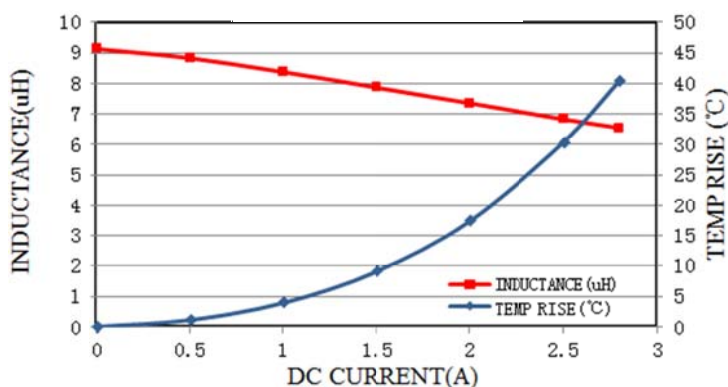
EM-56AM01V01



EM-68AM01V01

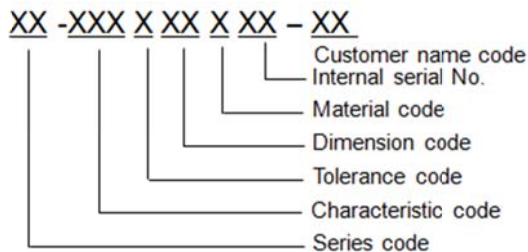
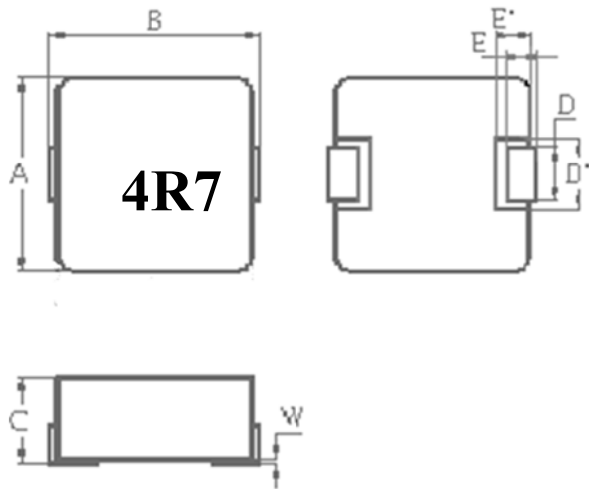


EM-100M01V01



SMD Alloy Molding Power Inductor EM-42V(0430)

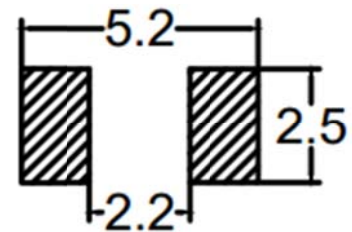
1. CONFIGURATIONS & DIMENSIONS



TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%

Code	Dimensions(mm)
A:	4.0±0.2
B:	4.2±0.3
C:	2.8±0.3
E:	0.8±0.3
E':	1.0±0.1
D :	1.5±0.3
D' :	2.2±0.2
W:	0.15±0



SUGGEST PCB PATTERN

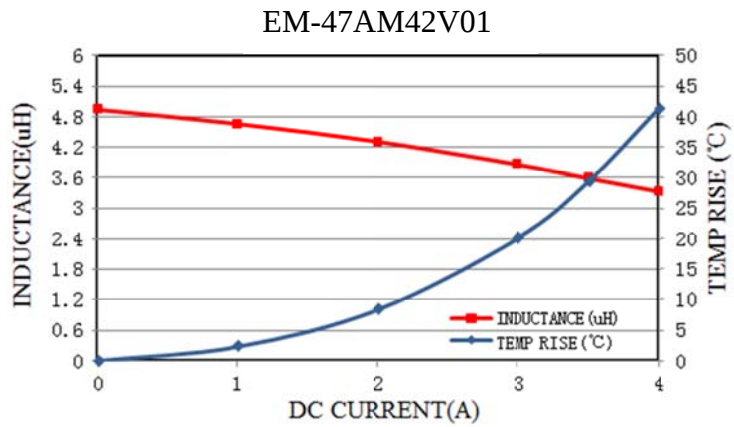
2. SPECIFICATIONS

Part Number	Inductance L0(uH) ± 20%@0A	Irms(A) typ	Isat(A) typ	DCR(mΩ) @25℃
EM-47AM42V01	4.70	3.5	3.5	64 ± 10%

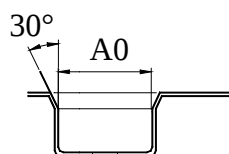
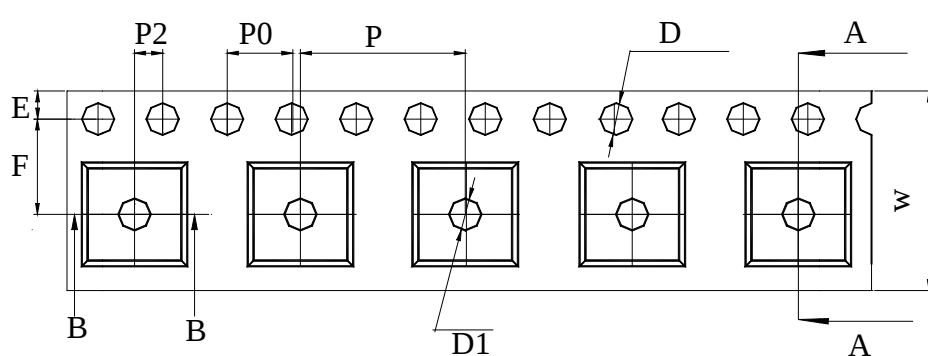
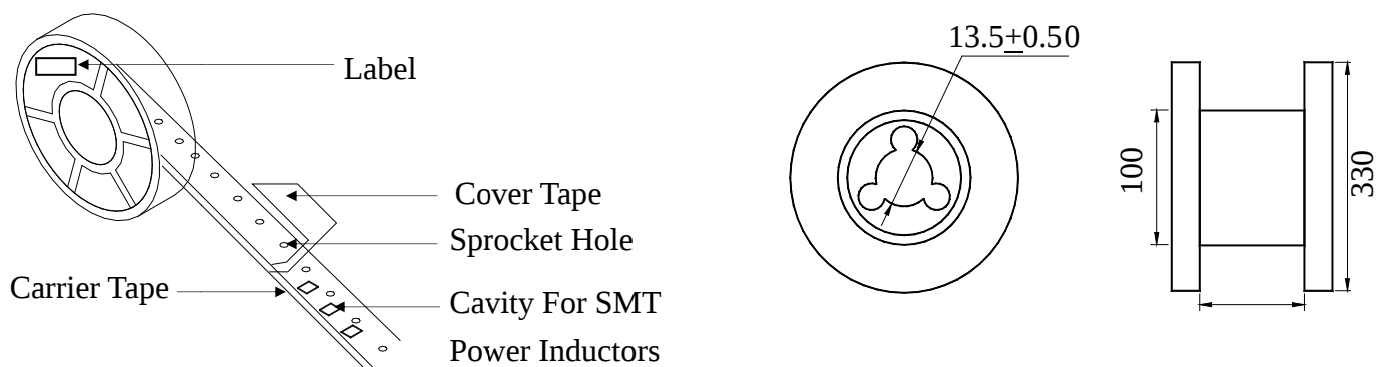
Note:

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.

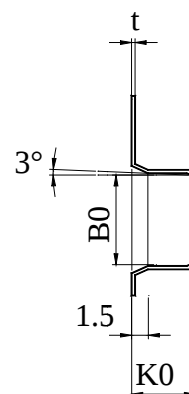
3. DC Bias Characteristics (Typical)



PACKAGING SPECIFICATION (unit: mm):



SECTION B-B



SECTION A-A

	W	P	E	F	A0	B0	K0	t
0412/EM-24V	12.0 $\pm$ 0.10/-0.30	8.0 $\pm$ 0.10	1.75 $\pm$ 0.10	5.50 $\pm$ 0.10	4.4 $\pm$ 0.10	4.7 $\pm$ 0.10	1.5 $\pm$ 0.10	0.35 $\pm$ 0.05
0420/EM-01V	12.0 $\pm$ 0.10/-0.30	8.0 $\pm$ 0.10	1.75 $\pm$ 0.10	5.50 $\pm$ 0.10	4.3 $\pm$ 0.10	4.5 $\pm$ 0.10	2.3 $\pm$ 0.10	0.35 $\pm$ 0.05
0430/EM-42V	12.0 $\pm$ 0.10/-0.30	8.0 $\pm$ 0.10	1.75 $\pm$ 0.10	7.50 $\pm$ 0.10	4.3 $\pm$ 0.10	4.5 $\pm$ 0.10	3.3 $\pm$ 0.10	0.35 $\pm$ 0.05

	Chip / Reel
0412/EM-24V	2000 pcs
0420/EM-01V	2000 pcs
0430/EM-42V	2000 pcs