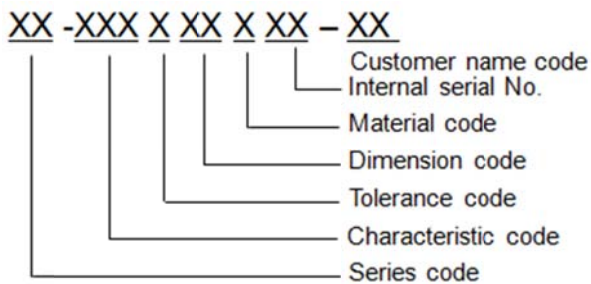
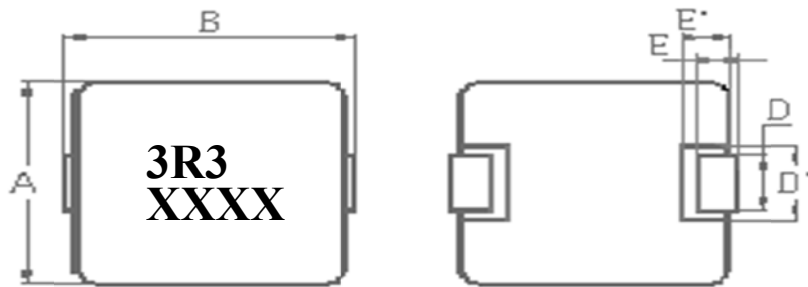


SMD Alloy Molding Power Inductor EM-43V Series (0815)

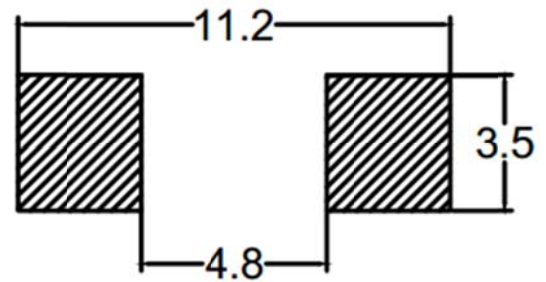
1. CONFIGURATIONS & DIMENSIONS



TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%

Code	Dimensions(mm)
A:	6.8±0.3
B:	10.5MAX
C:	1.5MAX
E:	2.0±0.3
E':	2.6±0.1
D :	3.0±0.5
D':	3.8±0.2
W:	0.15+0



SUGGEST PCB PATTERN

2. SPECIFICATIONS

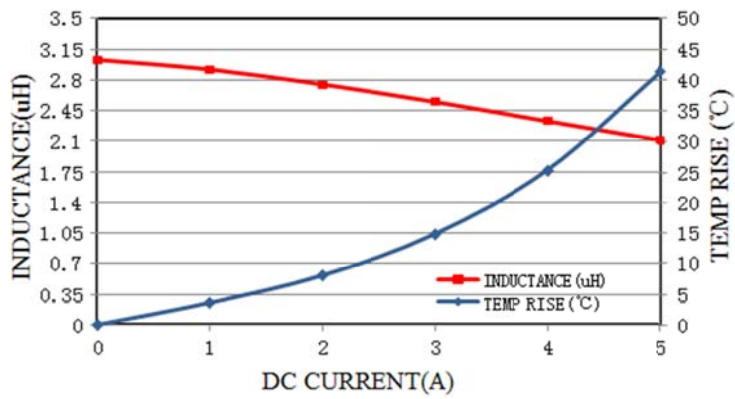
Part Number	Inductance L0(uH)± 20%@0A	Irms(A) typ	Isat(A) typ	DCR(mΩ) @25°C
EM-33AM43V01	3.30	4	4	48±10%

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.

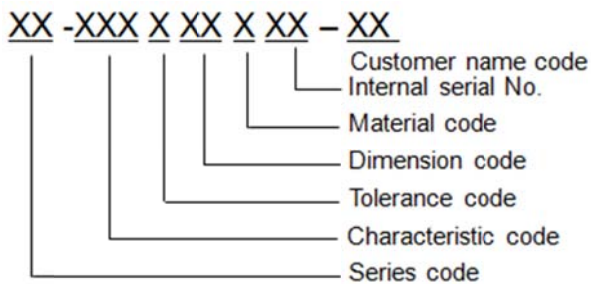
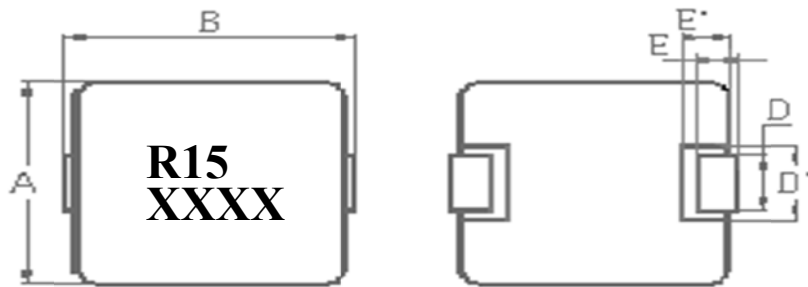
3. DC Bias Characteristics (Typical)

EM-33AM43V01



SMD Alloy Molding Power Inductor EM-45V Series (0840)

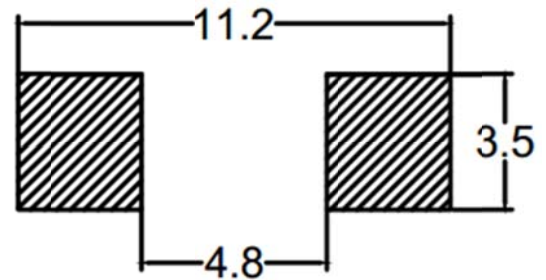
1. CONFIGURATIONS & DIMENSIONS



TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%

Code	Dimensions(mm)
A:	6.8±0.3
B:	10.1±0.4
C:	3.8±0.2
E:	2.0±0.3
E':	2.6±0.1
D :	3.0±0.5
D':	3.8±0.2
W:	0.15+0



2. SPECIFICATIONS

SUGGEST PCB PATTERN

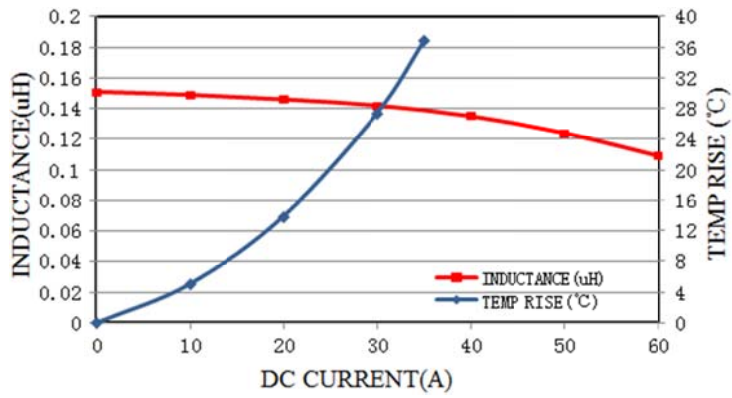
Part Number	Inductance L0(uH)± 20%@0A	Irms(A) typ	Isat(A) typ	DCR(mΩ) @25°C
EM-15BM45V02	0.15	35	60	0.82±10%

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.

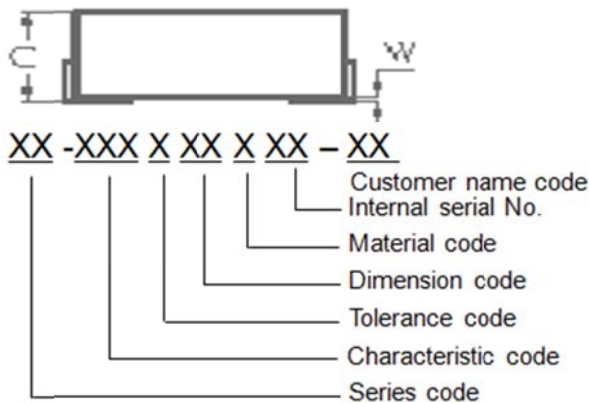
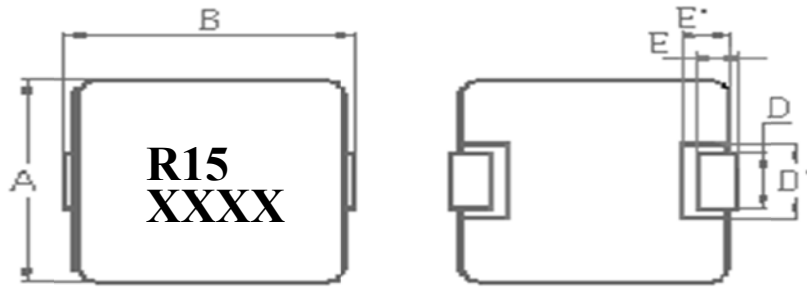
3. DC Bias Characteristics (Typical)

EM-15BM45V02



SMD Alloy Molding Power Inductor EM-20V Series (0850)

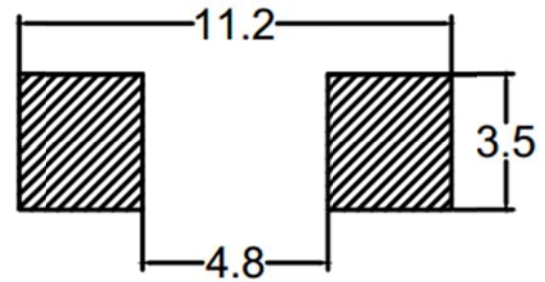
1. CONFIGURATIONS & DIMENSIONS



TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%

Code	Dimensions(mm)
A:	6.8±0.3
B:	10.1±0.4
C:	5.0MAX
E:	2.0±0.5
E':	2.6±0.1
D :	3.0±0.5
D':	3.8±0.2
W:	0.15+0



2. SPECIFICATIONS

SUGGEST PCB PATTERN

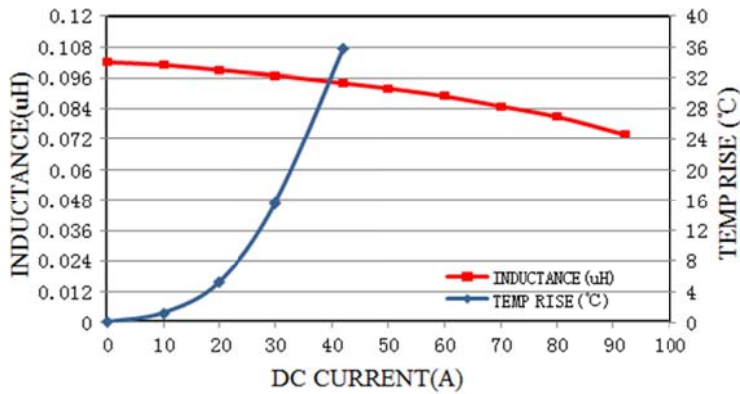
Part Number	Inductance L0(uH)± 20%@0A	Irms(A) typ	Isat(A) typ	DCR(mΩ) @25°C
EM-10BM20V02	0.10	42	92	0.58±7%
EM-15BM20V06	0.15	42	75	0.58±7%
EM-22BM20V04	0.22	34	72	0.9±7%
EM-30BM20V08-L1	0.30	32	60	1.05±10%
EM-47BM20V01	0.47	28	40	1.6max
EM-51BM20V04	0.51	25	30	1.6±10%
EM-68BM20V01	0.68	18	18	5.3max
EM-33AM20V01	3.30	9	12	15max
EM-47AM20V01	4.70	8	10	16.8max
EM-68AM20V01	6.80	6.5	7	22±10%

Note:

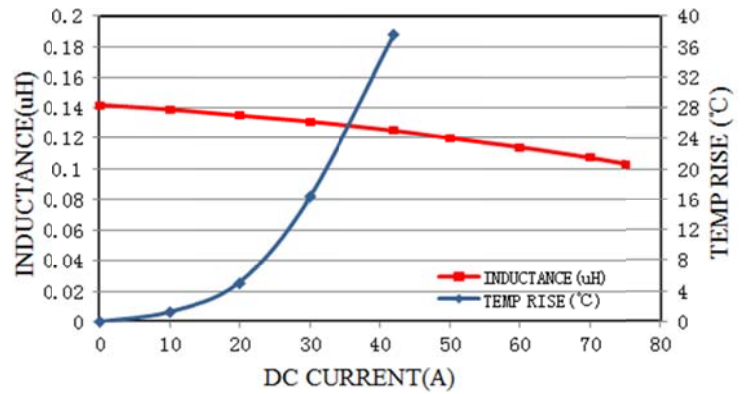
1. Test frequency: L: 100 KHz /1.0v.
2. All test data referenced to 25°C ambient.
3. Temperature Rise Current: ΔT 40°C approximately at Irms.
4. Saturation Rated Current: Inductance drop approximately 30% at Isat.
5. Storage temp.: -40°C ~ 85°C.
6. Storage R.H: 20% ~ 75%.
7. Operating temp.: -55°C ~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

3. DC Bias Characteristics (Typical)

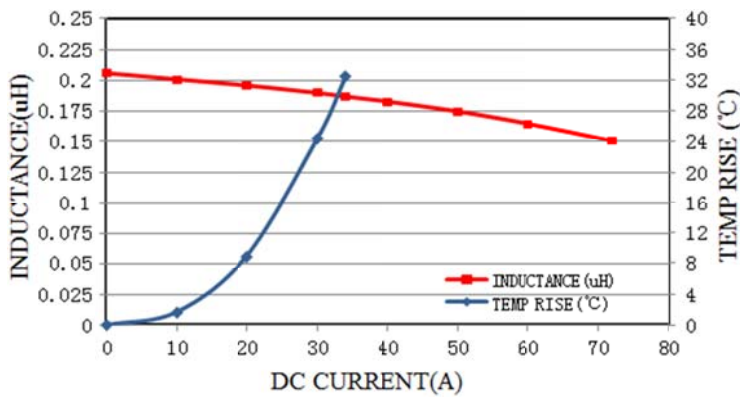
EM-10BM20V02



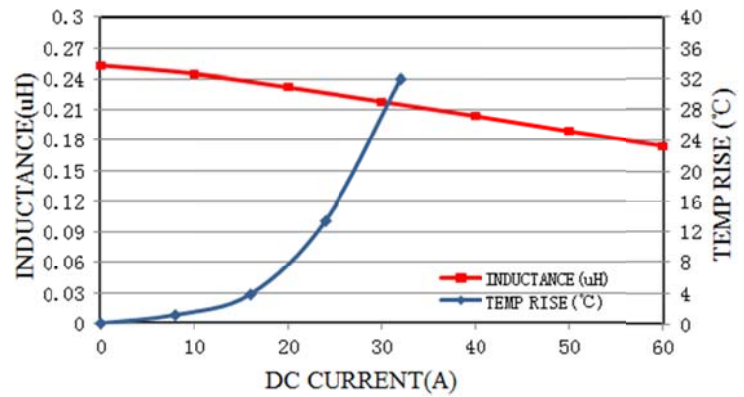
EM-15BM20V06



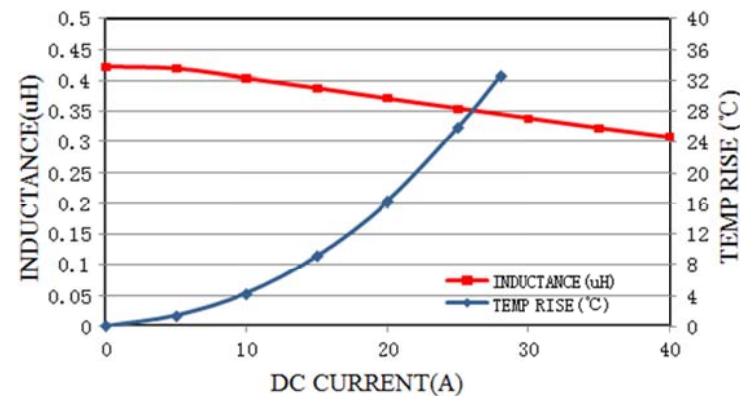
EM-22BM20V04



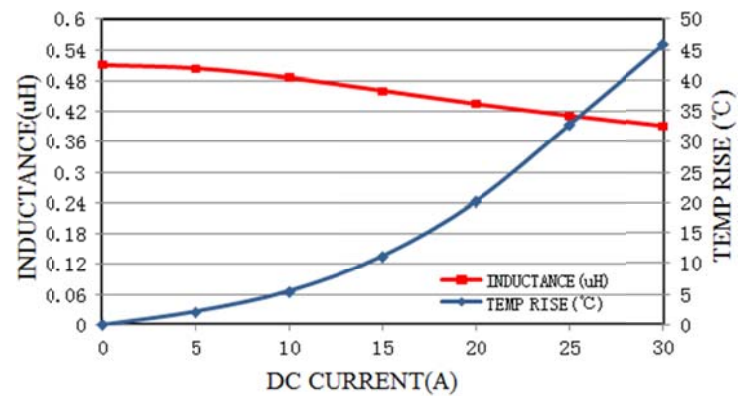
EM-30BM20V08-L1



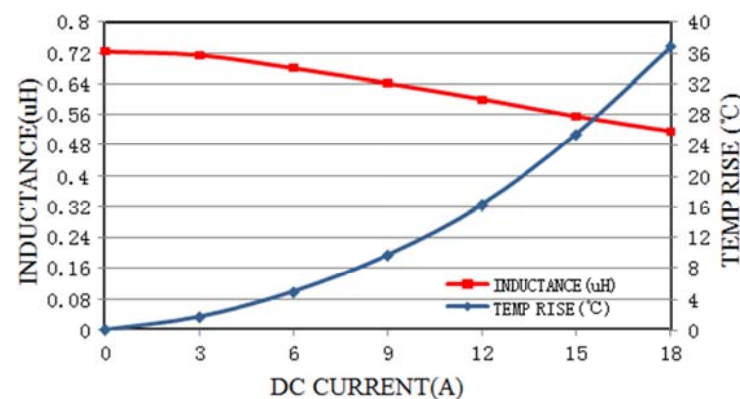
EM-47BM20V01



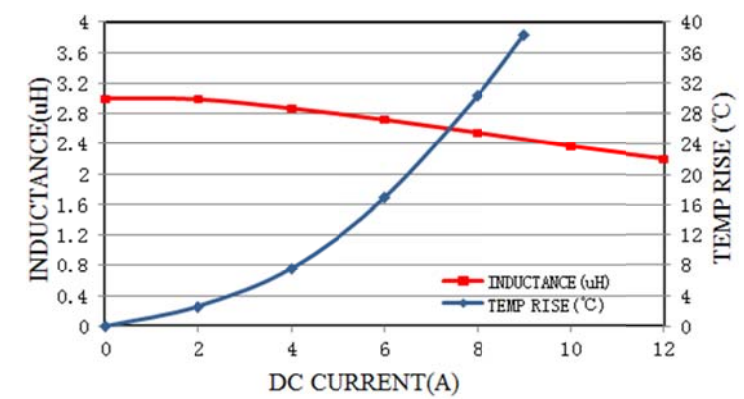
EM-51BM20V04



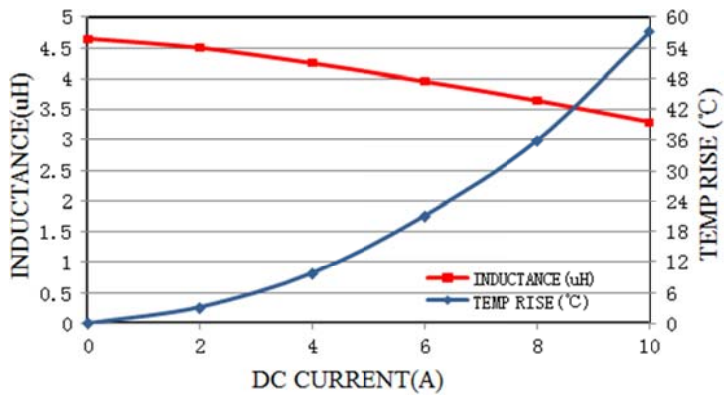
EM-68BM20V01



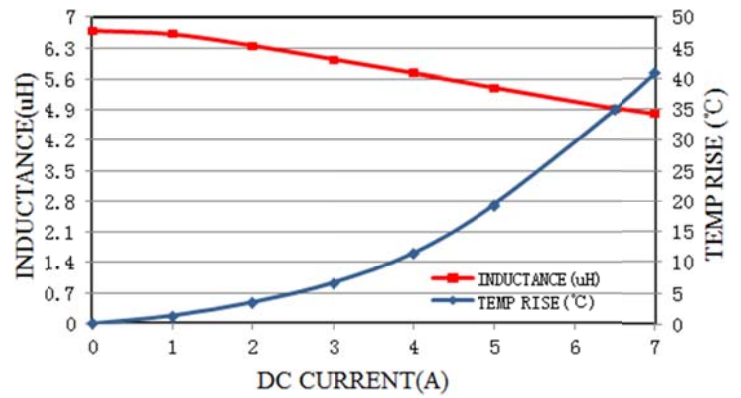
EM-33AM20V01



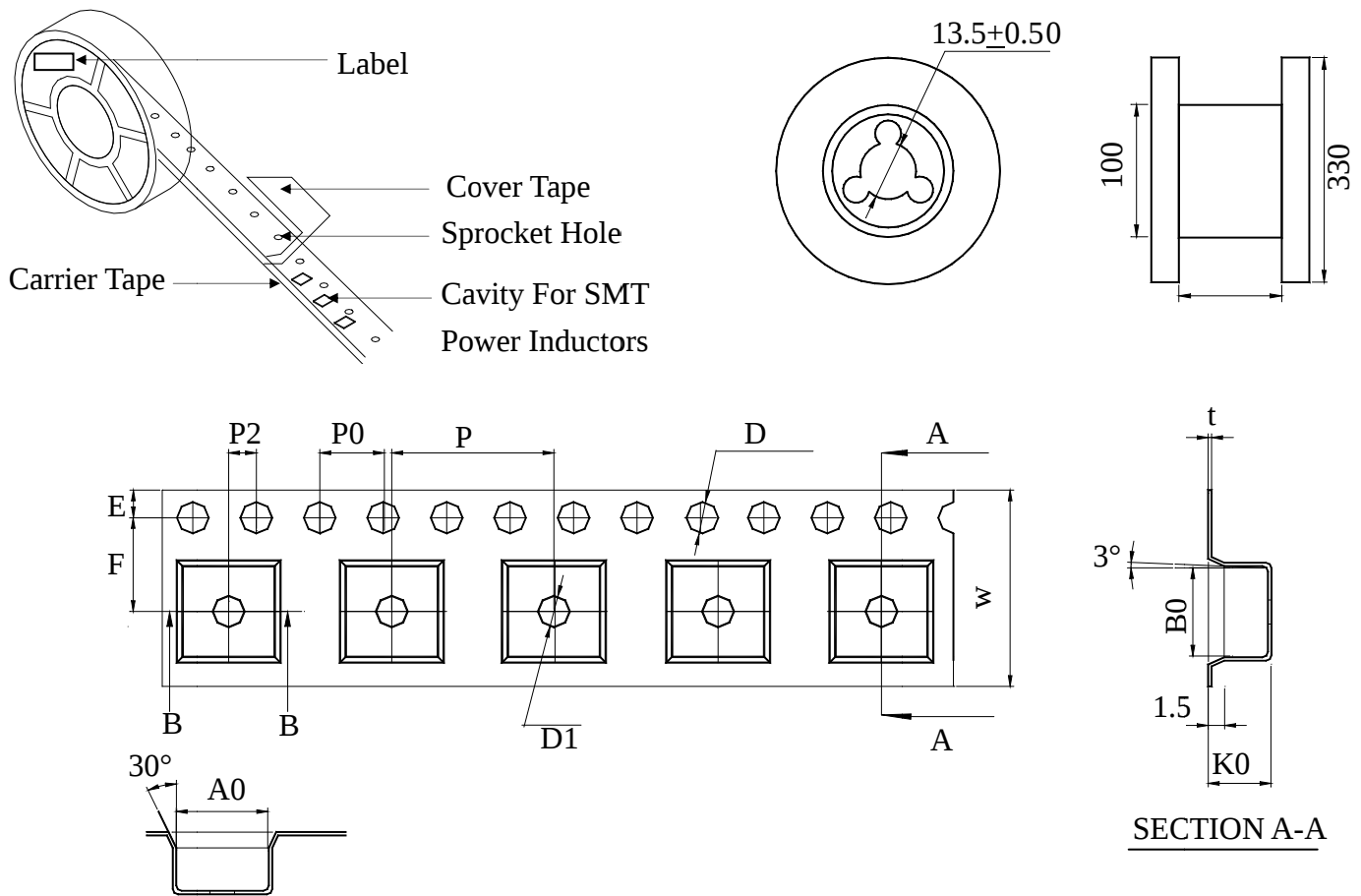
EM-47AM20V01



EM-68AM20V01



PACKAGING SPECIFICATION FOR SMD POWER INDUCTORS (unit: mm)



	SECTION B-B W	P	E	F	A0	B0	K0	t
0815/ EM-43V	24.0+0.10/-0.30	12.0±0.10	1.75±0.10	11.50±0.10	7.2±0.10	11.0±0.10	1.9±0.10	0.35±0.05
0840/ EM-45V	24.0+0.10/-0.30	12.0±0.10	1.75±0.10	11.50±0.10	7.2±0.10	11.0±0.10	4.5±0.10	0.35±0.05
0850/ EM-20V	24.0+0.10/-0.30	12.0±0.10	1.75±0.10	11.50±0.10	7.2±0.10	11.0±0.10	5.4±0.10	0.4±0.05

	Chip / Reel
0815/EM-43V	2000 pcs
0840/EM-45V	1000 pcs
0850/EM-20V	500pcs