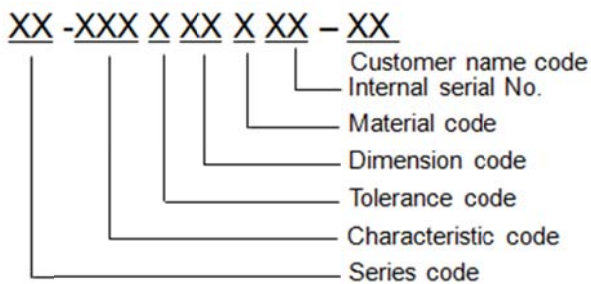
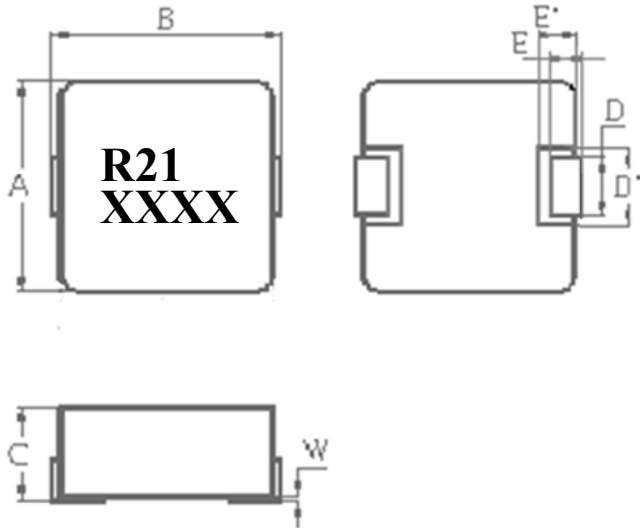


SMD Alloy Molding Power Inductor EM-90V Series (8120)

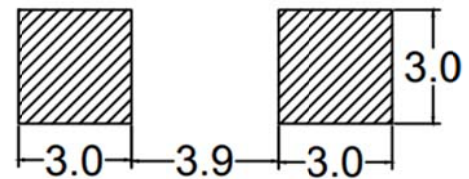
1. CONFIGURATIONS & DIMENSIONS



TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%

Code	Dimensions(mm)
A:	8.1±0.3
B:	8.7±0.3
C:	2.0MAX
E:	2.1±0.5
E':	2.5±0.1
D :	2.2±0.5
D':	6.0±0.2
W:	0.15+0



SUGGEST PCB PATTERN

2. SPECIFICATIONS

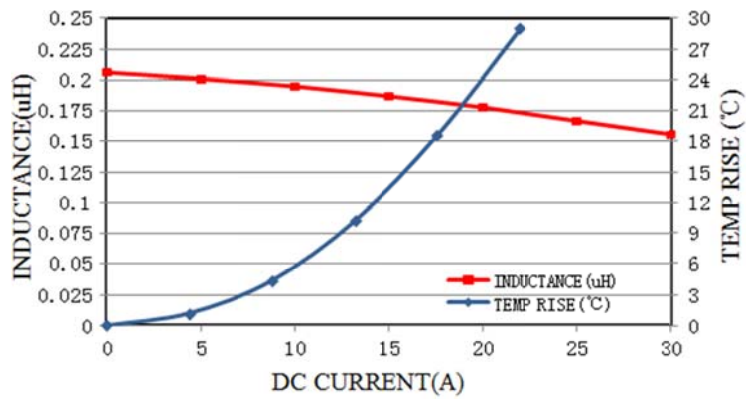
Part Number	Inductance L0(uH)± 20%@0A	Irms(A) typ	Isat(A) typ	DCR(mΩ) @25°C
EM-21BM90V01-N1	0.21	22	30	2.4max

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.

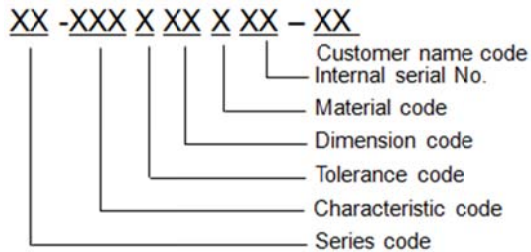
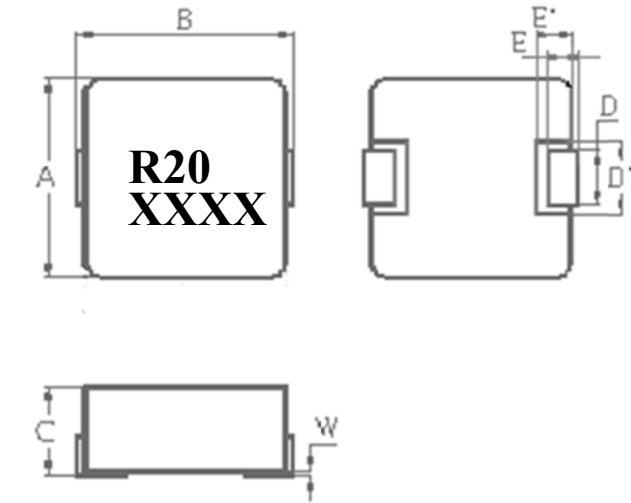
3. DC Bias Characteristics (Typical)

EM-21BM90V01-N1



SMD Alloy Molding Power Inductor EM-84V Series (8140)

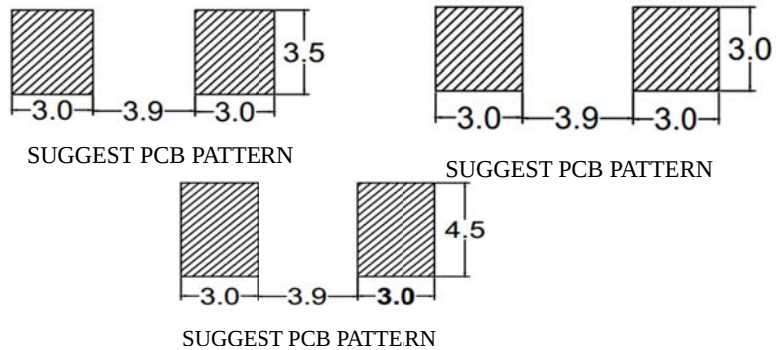
1. CONFIGURATIONS & DIMENSIONS



TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%

Code	Dimensions(mm)				
	R19/R33	R47	1R5	3R3	R20
A:	8.1±0.3				
B:	8.7±0.3				
C:	4.0MAX				3.9MAX
E:	2.1±0.5				
E':	2.5±0.1				
D :	3.0±0.5	2.2±0.5	4.0±0.3	3.0±0.3	4.0±0.5
D':	6.0±0.2				
W:	0.15±0				



2. SPECIFICATIONS

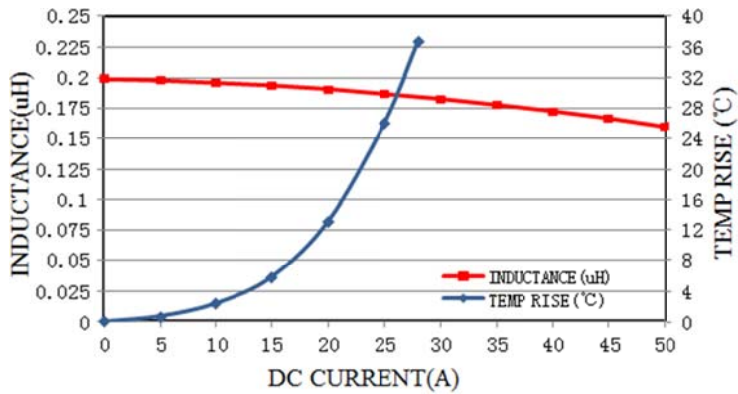
Part Number	Inductance L0(uH)± 20%@0A	Irms(A) typ	Isat(A) typ	DCR(mΩ) @25℃
EM-19BM84V01	0.19	28	50	1.48±5%
EM-20BM84V01	0.20	40	65	0.76±7%
EM-33BM84V01	0.33	30	50	1.35±10%
EM-47BM84V01	0.47	25	38	2.3max
EM-15AM84V01	1.50	15	20	6.0max
EM-33AM84V01	3.30	8	19	19max

Note:

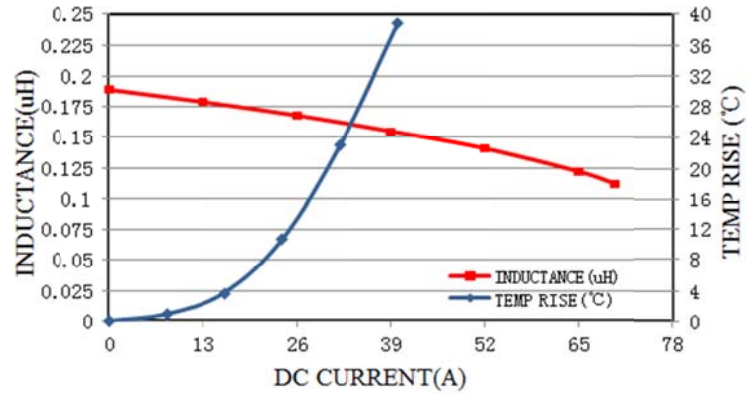
- Test frequency: L: 100 KHz /1.0v.
- All test data referenced to 25℃ ambient.
- Temperature Rise Current: ΔT 40℃ approximately at Irms.
- Saturation Rated Current: Inductance drop approximately 30% at Isat.
- Storage temp.: -40℃ ~ 85℃.
- Storage R.H: 20% ~ 75%.
- Operating temp.: -55℃ ~ +125℃.
- Special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

3. DC Bias Characteristics (Typical)

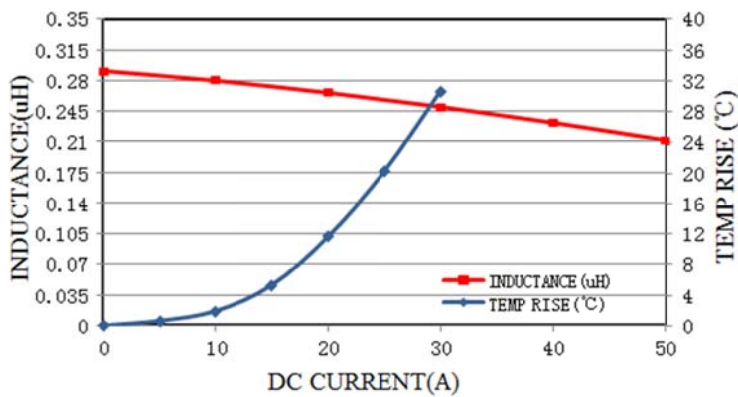
EM-19BM84V01



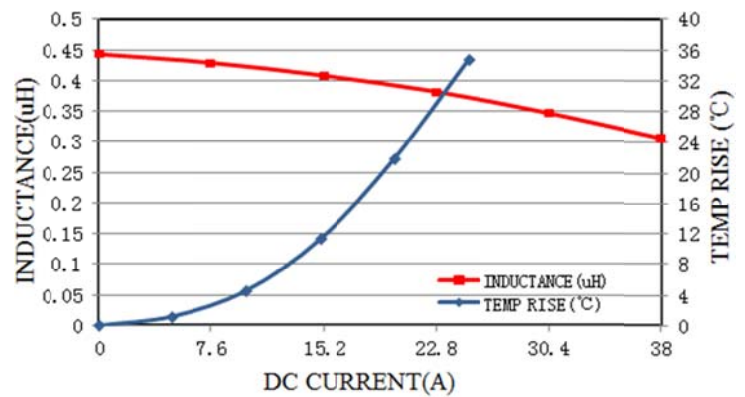
EM-20BM84V01



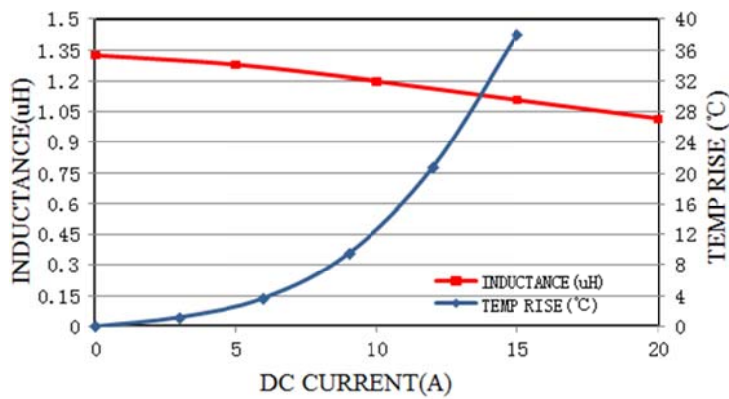
EM-33BM84V01



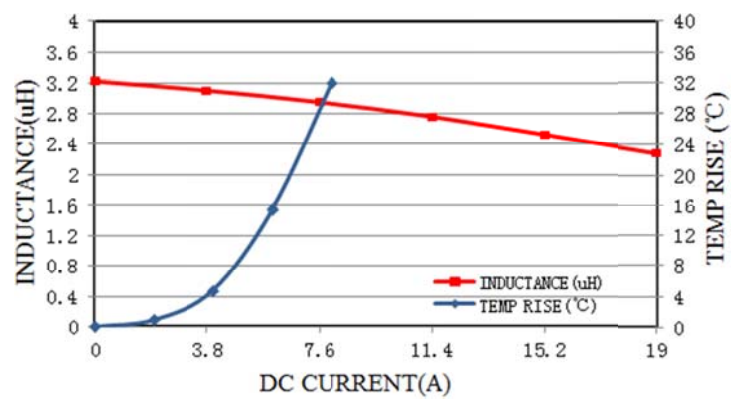
EM-47BM84V01



EM-15AM84V01

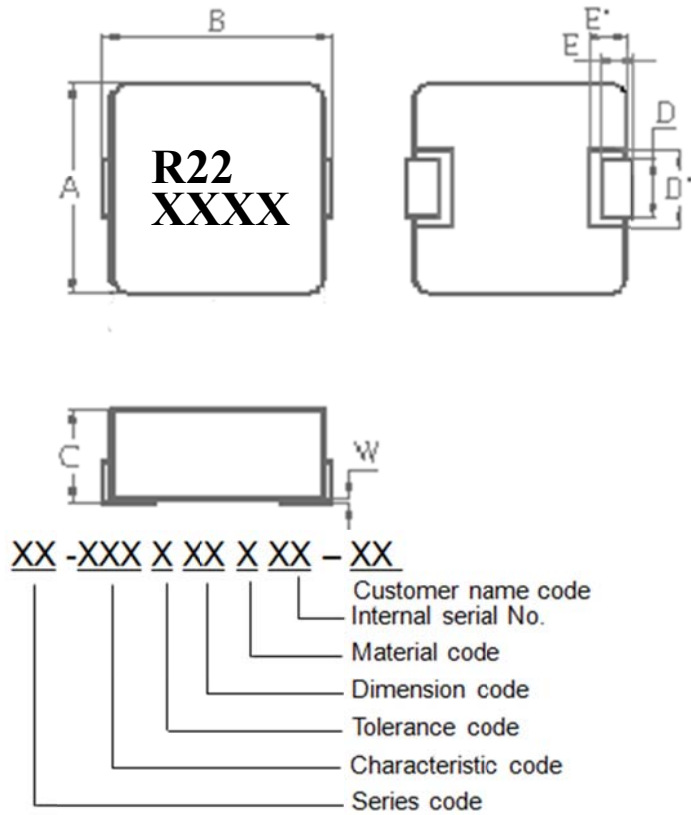


EM-33AM84V01



SMD Alloy Molding Power Inductor EM-85V Series (8150)

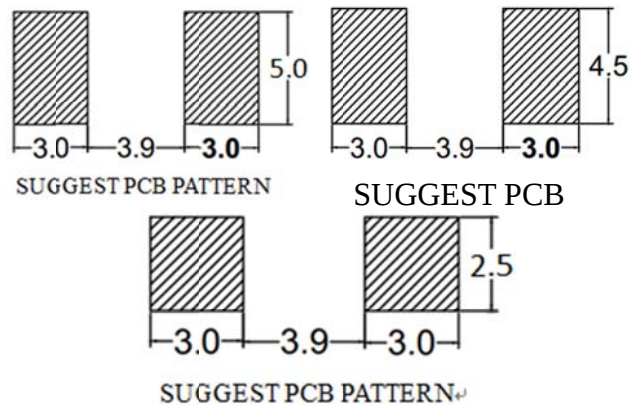
1. CONFIGURATIONS & DIMENSIONS



TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%

Code	Dimensions(mm)		
	R22	R30	1R0
A:	8.1±0.3		
B:	8.7±0.3		
C:	5.0MAX		
E:	2.1±0.5		
E':	2.5±0.1		
D :	4.3±0.5	4.0±0.5	2.2±0.3
D':	6.0±0.2		
W:	0.15+0		



2. SPECIFICATIONS

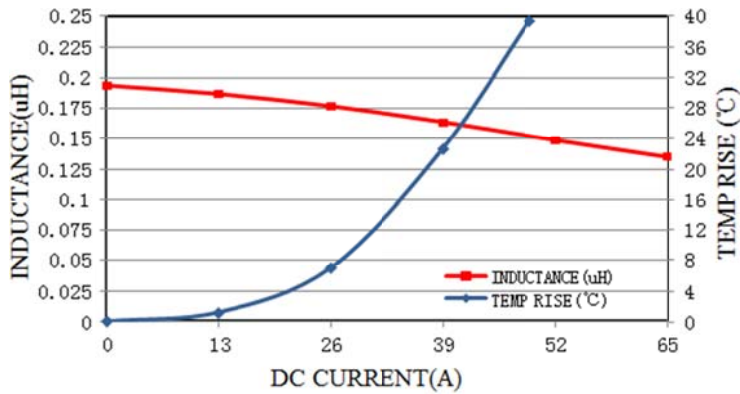
Part Number	Inductance L0(uH)± 20%@0A	Irms(A) typ	Isat(A) typ	DCR(mΩ) @25°C
EM-22BM85V01	0.22	49	65	0.56±10%
EM-30BM85V01	0.30	36	49	1.1max
EM-10AM85V01	1.00	16.5	27	3.85±5%

Note:

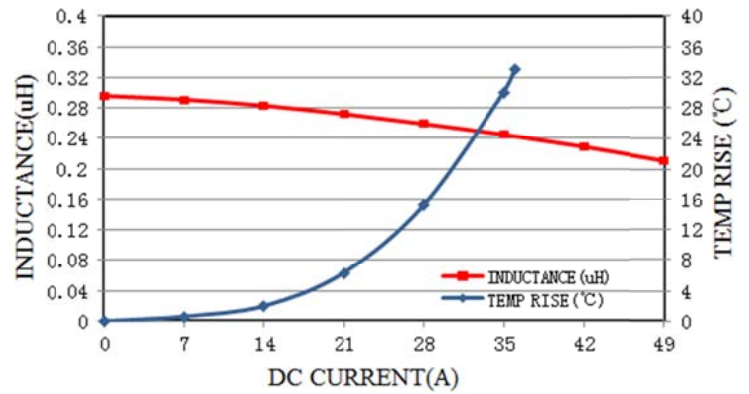
1. Test frequency: L: 100 KHz /1.0v.
2. All test data referenced to 25°C ambient.
3. Temperature Rise Current: ΔT 40°C approximately at Irms.
4. Saturation Rated Current: Inductance drop approximately 30% at Isat.
5. Storage temp.: -40°C ~ 85°C.
6. Storage R.H: 20% ~ 75%.
7. Operating temp.: -55°C~ +125°C.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

3. DC Bias Characteristics (Typical)

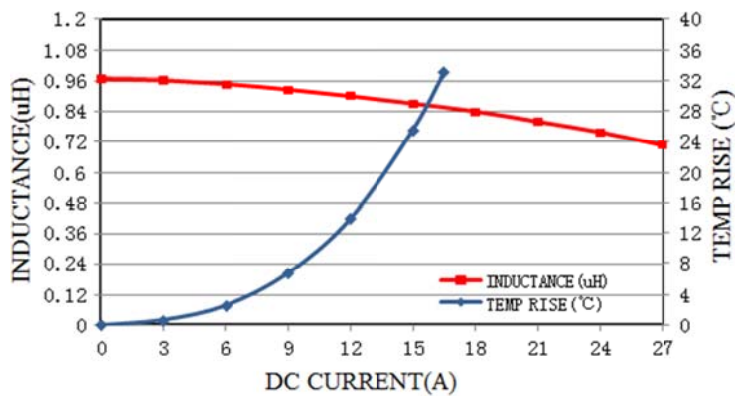
EM-22BM85V01

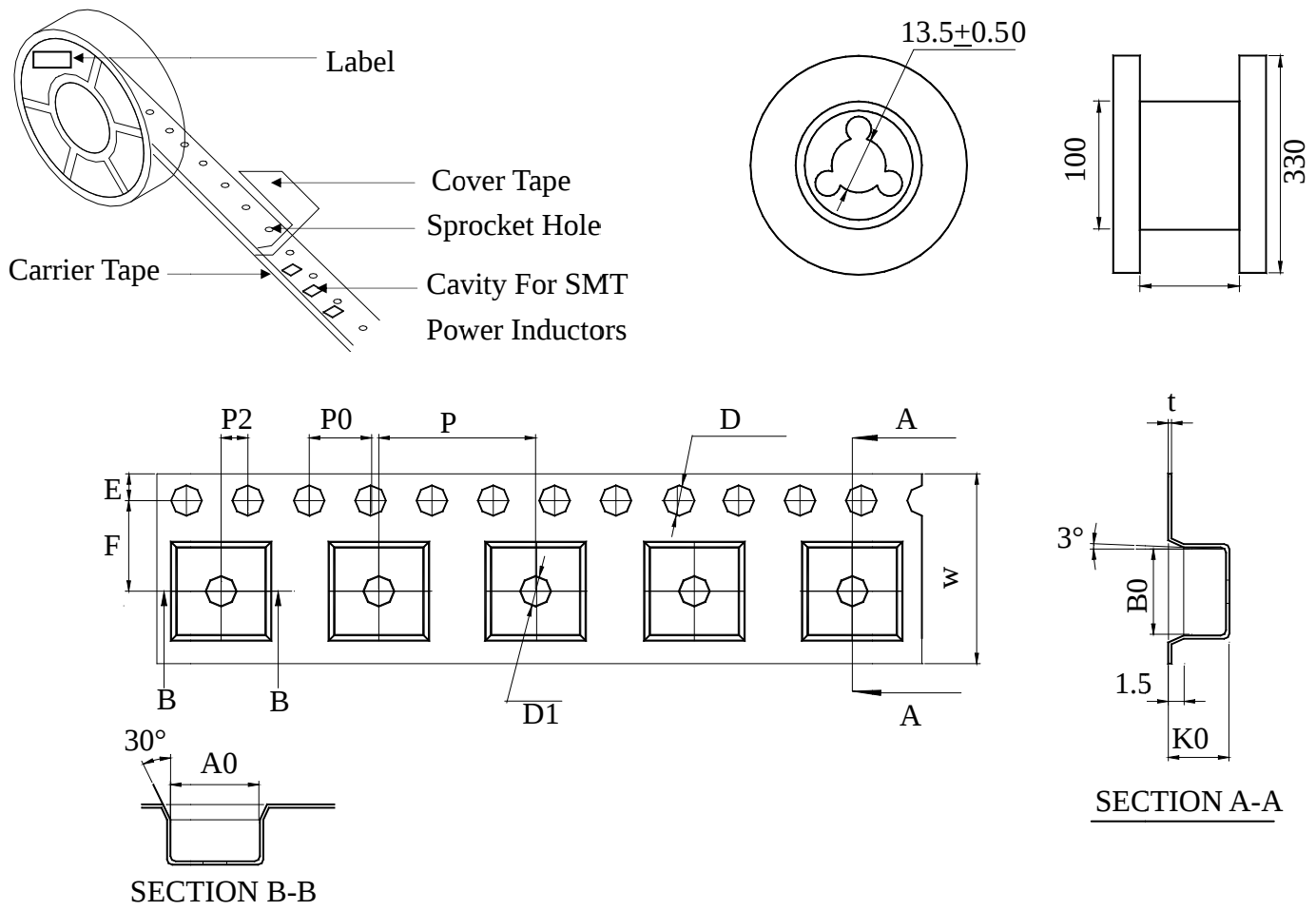


EM-30BM85V01



EM-10AM85V01



PACKAGING SPECIFICATION FOR SMD POWER INDUCTORS (unit: mm)


	W	P	E	F	A0	B0	K0	t
8120/ EM-90V	24.0+0.10/-0.30	12.0±0.10	1.75±0.10	11.50±0.10	8.6±0.10	9.2±0.10	2.4±0.10	0.35±0.05
8140/ EM-84V	24.0+0.10/-0.30	12.0±0.10	1.75±0.10	11.50±0.10	8.7±0.10	9.3±0.10	4.5±0.10	0.4±0.05
8150/ EM-85V	24.0+0.10/-0.30	12.0±0.10	1.75±0.10	11.50±0.10	8.7±0.10	9.3±0.10	5.5±0.10	0.4±0.05

	Chip / Reel
8120/EM-90V	1500 pcs
8140/EM-84V	1000 pcs
8150/EM-85V	500pcs