

High Current SMD Power Inductor

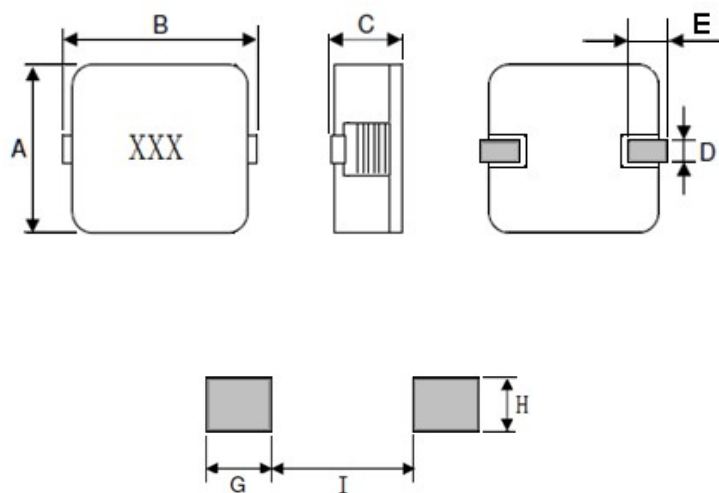


◆ Features

- 1.High current, low loss of iron powder core
- 2.Low profile for machine placement
- 3.Minimize electromagnetic interference
- 4.Suppress common mode noise
- 5.Prevent EMI effect via precise impedance
- 6.Custom design available



◆ Dimensions(mm)



◆ Lead Free Part Numbering

SLB 0540 P 4R7 M T T
① ② ③ ④ ⑤ ⑥ ⑦

- ①Series Type;
- ②Dimension;
- ③Material type;
- ④Inductance 4R7=4.7UH;
- ⑤Inductance Tolerance: M=±20%;
- ⑥Company Code;
- ⑦Packaging: T - Tape & reel;

Unit: mm

Series	A	B	C	D	E	G	H	I
SLB0540P	5.3±0.3	5.6±0.3	4.0±0.3	1.0±0.3	1.2±0.5	2.2	2.0	2.0

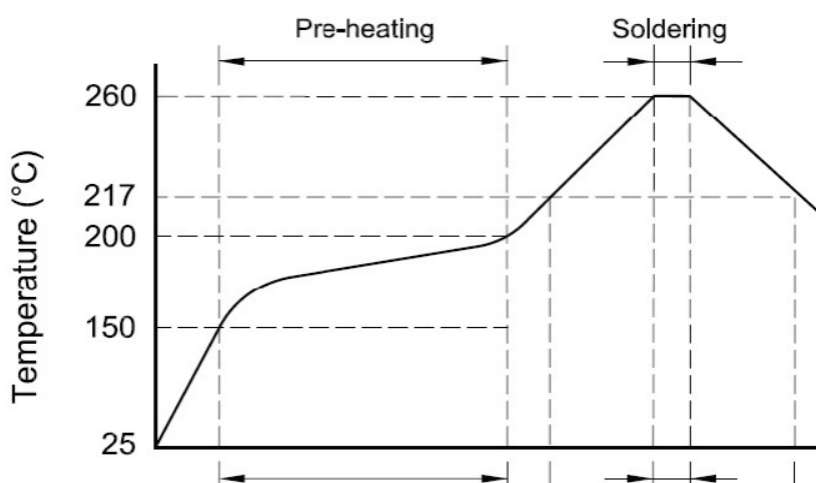
◆ Specification

Part Number	Inductance (μH)	DCR(m Ω)		I _{rms} (A) Typ	I _{sat} (A) Typ	TEST FREQUENCY
		Typ	Max			
SLB0540P						
SLB0540PR22MTT	0.22 ± 20%	1.25	1.38	20.00	25.00	100KHz/0.1V
SLB0540PR33MTT	0.33 ± 20%	1.75	1.93	18.50	20.00	100KHz/0.1V
SLB0540PR47MTT	0.47 ± 20%	2.75	3.03	15.00	16.00	100KHz/0.1V
SLB0540PR68MTT	0.68 ± 20%	4.00	4.40	12.75	13.50	100KHz/0.1V
SLB0540P1R0MTT	1.0 ± 20%	4.75	5.23	11.50	11.50	100KHz/0.1V
SLB0540P1R5MTT	1.5 ± 20%	8.15	8.97	9.00	9.00	100KHz/0.1V
SLB0540P2R2MTT	2.2 ± 20%	11.30	12.43	7.50	7.50	100KHz/0.1V
SLB0540P3R3MTT	3.3 ± 20%	18.50	20.35	5.75	5.80	100KHz/0.1V
SLB0540P4R7MTT	4.7 ± 20%	24.50	26.95	4.60	4.70	100KHz/0.1V
SLB0540P5R6MTT	5.6 ± 20%	28.50	31.35	4.50	4.60	100KHz/0.1V

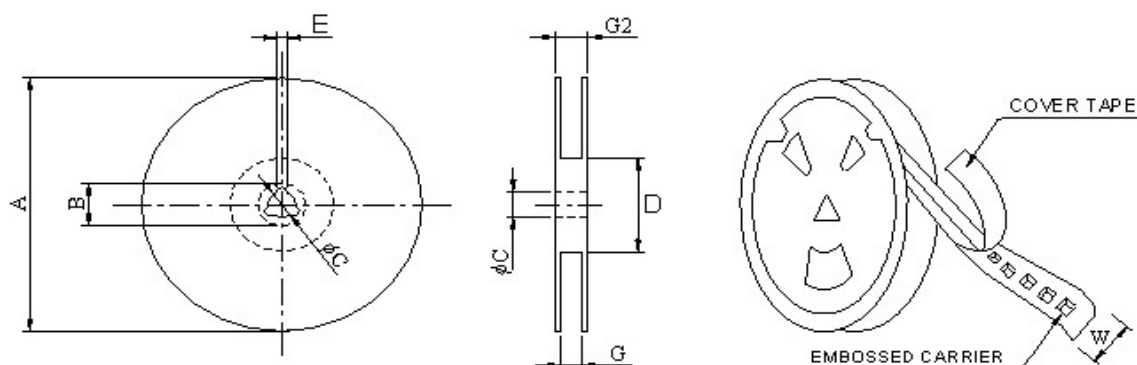
NOTE:

1. All test data is referenced to 25°C ambient.
2. Irms: DC current(A) that will cause an approximate ΔT of 50°C.
3. Isat: DC current(A) that will cause L_o to drop approximate 30%.
4. Operating temperature range is P40°C to 125°C.
5. The part temperature(ambient and temp rise) should not exceed 125°C under worse case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

◆ Recommended Soldering conditions

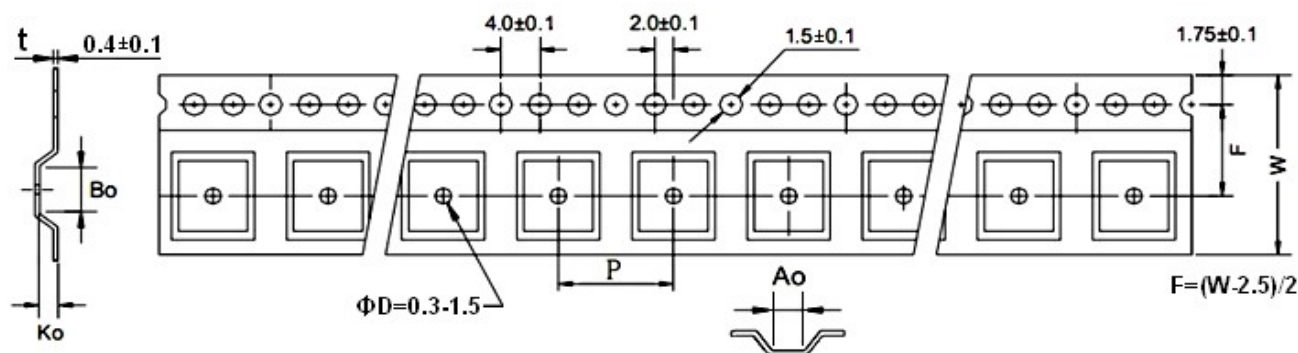


◆ **Packaging**

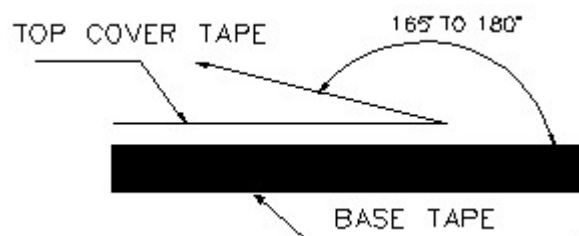


*CARRIER TAPE WIDTH: W

Series	TYPE	A(Ref.)	B(Ref.)	C(Ref.)	D(Ref.)	E(Ref.)	G(Ref.)	G2(Ref.)
SLB0540P	13"*12mm	330±1	20±0.8	13±0.5	100±1	2.0±0.5	12.5±0.5	16.5±0.5



Series	QTY (Pcs/Reel)	Ao	Bo	Ko	W	P
SLB0540P	1500	5.6	6.0	4.2	12	8



Typical Pulling Force: 10-130 grams