

High Current SMD Power Inductor

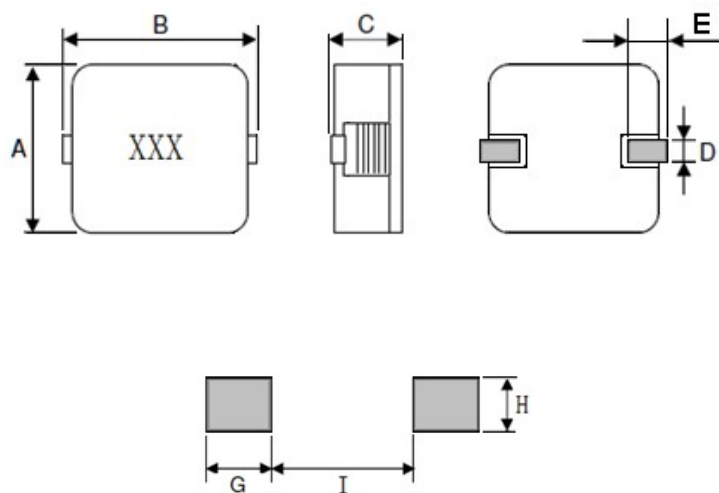


◆ Features

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 **1365** **S** **4R7** **M** **T** **T**
 ① ② ③ ④ ⑤ ⑥ ⑦

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

Unit: mm

Series	A	B	C	D	E	G	H	I
SLB1365S	12.8±0.5	13.0±1.0	6.5Max	3.0±1.0	3.0±1.0	4.5	5.0	6.0

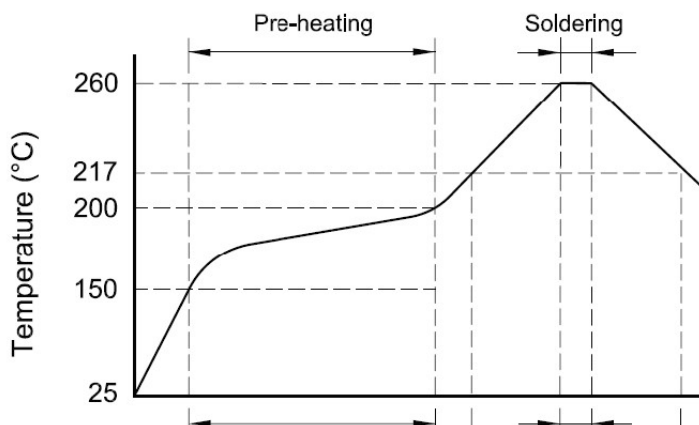
◆ Specification

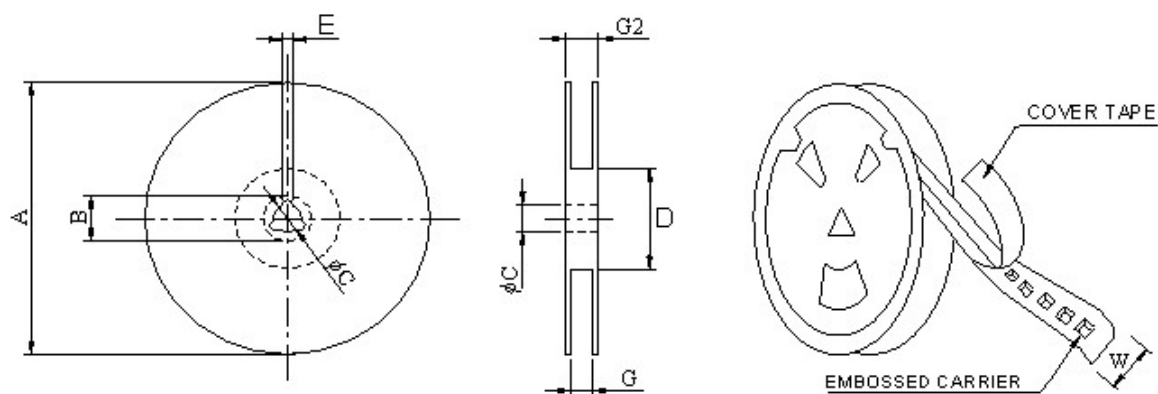
Part Number	Inductance (μH)	DCR(m Ω)		Irms (A) Typ	Isat (A) Typ	TEST FREQUENCY
		Typ	Max			
SLB1365S						
SLB1365SR22MTT	0.22±20%	0.35	0.39	32.0	65.0	100KHz/0.1V
SLB1365SR47MTT	0.47±20%	0.67	0.74	30.0	50.0	100KHz/0.1V
SLB1365SR82MTT	0.82±20%	0.90	0.99	27.0	35.0	100KHz/0.1V
SLB1365S1R3MTT	1.3±20%	1.80	1.98	25.0	25.0	100KHz/0.1V
SLB1365S2R0MTT	2.0±20%	2.60	2.86	23.0	22.0	100KHz/0.1V
SLB1365S2R8MTT	2.8±20%	3.30	3.63	20.0	17.5	100KHz/0.1V
SLB1365S3R7MTT	3.7±20%	4.90	5.39	17.0	16.0	100KHz/0.1V
SLB1365S4R7MTT	4.7±20%	7.00	7.70	13.0	15.0	100KHz/0.1V
SLB1365S6R0MTT	6.0±20%	8.40	9.24	12.0	14.0	100KHz/0.1V
SLB1365S7R3MTT	7.3±20%	5.90	6.49	13.0	12.0	100KHz/0.1V
SLB1365S9R2MTT	9.2±20%	7.80	8.58	12.0	10.5	100KHz/0.1V
SLB1365S110MTT	11±20%	9.10	10.0	11.0	9.5	100KHz/0.1V
SLB1365S130MTT	13±20%	11.2	12.32	10.0	9.0	100KHz/0.1V
SLB1365S150MTT	15±20%	14.8	16.28	9.0	8.0	100KHz/0.1V
SLB1365S220MTT	22±20%	24.7	27.17	6.0	6.5	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.

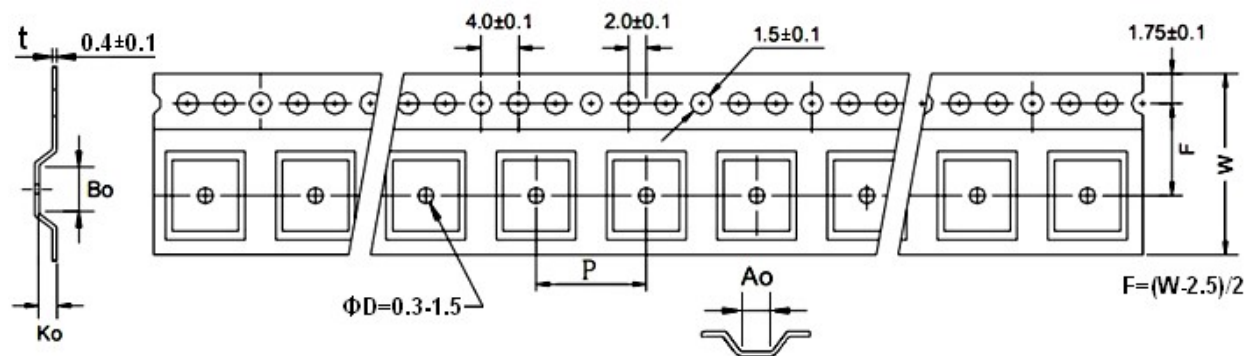
◆ Recommended Soldering conditions



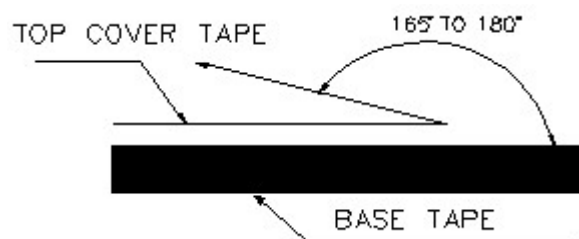
◆ Packaging


*CARRIER TAPE WIDTH: W

Series	TYPE	A(Ref.)	B(Ref.)	C(Ref.)	D(Ref.)	E(Ref.)	G(Ref.)	G2(Ref.)
SLB1365S	13"*24mm	330±1	20±0.8	13±0.5	100±1	2.0±0.5	24.5±0.5	28.5±0.5



Series	QTY (Pcs/Reel)	Ao	Bo	Ko	W	P
SLB1365S	500	13.5	14.0	6.7	24	16



Typical Pulling Force: 10P130 grams