



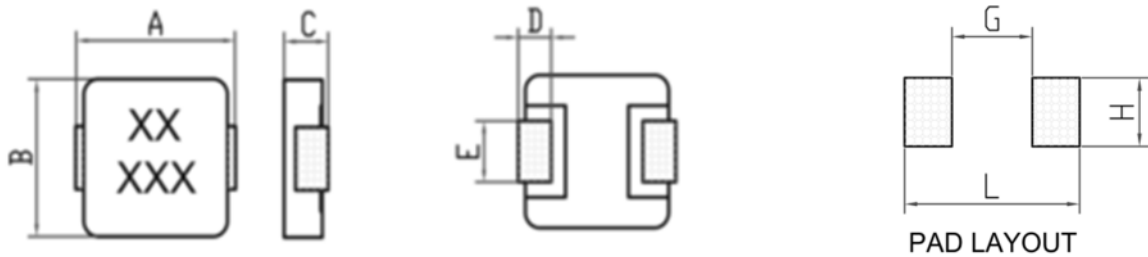
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Shielded SMT High Current Power Inductor
Automotive reliability comply with AEC-Q200 grade 1
SPIM0804B series

■ SHAPES AND DIMENSIONS



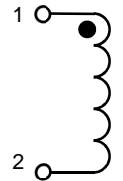
Unit: mm

Item	A	B	C	D	E	G	H	L
SPIM0804B	8.6±0.3	8.1±0.25	3.8±0.2	1.8±0.3	3.2±0.5	4.6	3.8	10.6

Marking :

XX = MB
XXX = Inductance

Schematic :



■ PART NUMBER CODE

SPIM 0804 B - 1R0 M A
1 2 3 4 5 6

1. Series Name
2. Size Code
3. Material Code
4. Inductance(R=Decimal Point) Unit : μH ; 1R0 =1.0uH
5. Inductance tolerance: "M"±20%
6. Soldering : A=Lead Free



■ ELECTRICAL CHARACTERISTICS

1. Part Number and Characteristics Table

Part No.	Inductance L0 (uH)	DCR(mΩ)		Isat(A)		Irms(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
SPIM0804B-R33MA	0.33	1.23	1.5	52.0	44.0	29.0	25.0
SPIM0804B-R47MA	0.47	1.77	2.2	45.0	39.0	27.0	24.0
SPIM0804B-1R5MA	1.5	7.6	9.5	27.0	23.5	14.0	12.0
SPIM0804B-4R7MA	4.7	17.0	22.6	18.0	15.5	9.0	8.0
SPIM0804B-100MA	10.0	48.2	59.9	11.0	9.5	5.5	4.5
SPIM0804B-220MA	22.0	72.9	95.0	7.2	6.3	4.5	4.0
SPIM0804B-330MA	33.0	119.8	144.0	6.3	5.4	3.5	3.0

Note 1: Referenced ambient temperature 25°C .

Note 2: Test Condition :100kHz ,0.25 Vrms.

Note 3: Isat (Typ): DC current (A) that will cause L0 to drop approximately 30%

Isat (Max): DC current (A) that will cause L0 to drop 30% Max

Irms (Typ): DC current (A) that will cause an approximate ΔT of 40°C

Irms (Max): DC current (A) that will cause an ΔT of 40°C Max

Note 4: Operating temperature range includes self-temperature rise.

Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

2. Test equipments

2.1. L: Wayne kerr 3260B LCR meter, Wayne kerr 3265B bias current source.

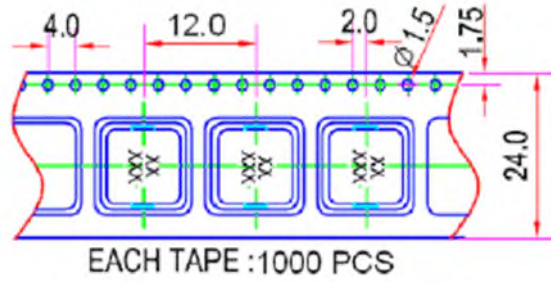
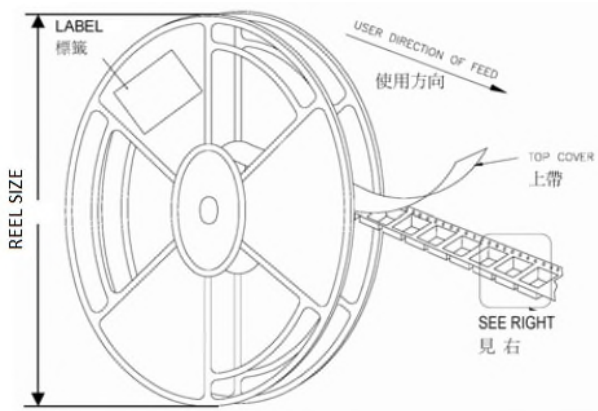
2.2. DCR: Chroma16502 Milliohm Meter

2.3. Operating temperature: -55°C to 125°C

* Equivalent measurement equipment may be used.



REEL DIMENSIONS AND PACKAGING QUANTITY



Unit: mm

TYPE	W	P	REEL SIZE	PCS / REEL
SPIM0804B series	24	12	330 mm (13")	1000