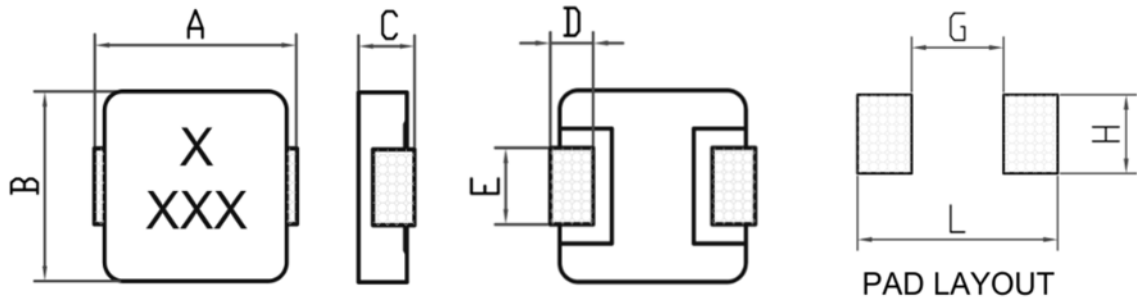




Shielded SMT High Current Power Inductor
AEC-Q200 standard compliance
SPIA0804_0854 series

■ SHAPES AND DIMENSIONS



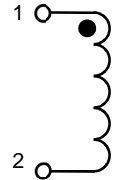
Unit: mm

Item	A Max	B Max	C Max	D	E	G	H	L
SPIA0804	8.60±0.3	8.0±0.25	3.80±0.2	1.80±0.3	3.20±0.5	4.60	3.80	10.6
SPIA0854	8.60±0.3	8.0±0.25	5.20±0.2	1.80±0.3	3.20±0.5	4.60	3.80	10.6

Marking :

X = A
XXX = Inductance

Schematic :



■ PART NUMBER CODE

SPIA **0804** - **1R0** **M** **A**
1 **2** **3** **4** **5**

1. Series Name
2. Size Code
3. Inductance(R=Decimal Point) Unit : μH ; 1R0 =1.0uH
4. Inductance tolerance: "M"±20%
5. 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.
SPIA0804-R33MA	0.33	1.10	1.40	49.0	42.0	36.0	30.0
SPIA0804-R47MA	0.47	1.94	2.40	40.0	35.0	26.0	23.0
SPIA0804-1R0MA	1.0	4.82	6.0	21.0	18.0	18.0	16.0
SPIA0804-1R5MA	1.5	6.27	8.0	17.0	15.0	17.0	15.0
SPIA0804-2R2MA	2.2	8.05	10.0	14.5	12.0	12.0	10.0
SPIA0804-3R3MA	3.3	11.5	15.0	13.5	11.5	11.5	9.5
SPIA0804-4R7MA	4.7	17.07	26.0	13.0	11.0	9.0	8.0
SPIA0804-100MA	10.0	43.4	51.8	7.0	6.0	5.4	5.0
SPIA0804-220MA	22.0	71.6	94.2	6.0	5.0	4.5	4.0
SPIA0804-330MA	33.0	121.6	159.0	3.2	2.6	3.1	2.5

Part No.	Inductance L0 (uH)	DCR(mΩ)		Isat(A)		Irms(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
SPIA0854-100MA	10.0	33.64	40.0	9.0	8.0	7.0	6.0
SPIA0854-220MA	22.0	56.0	70.0	7.2	6.2	5.0	4.0

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

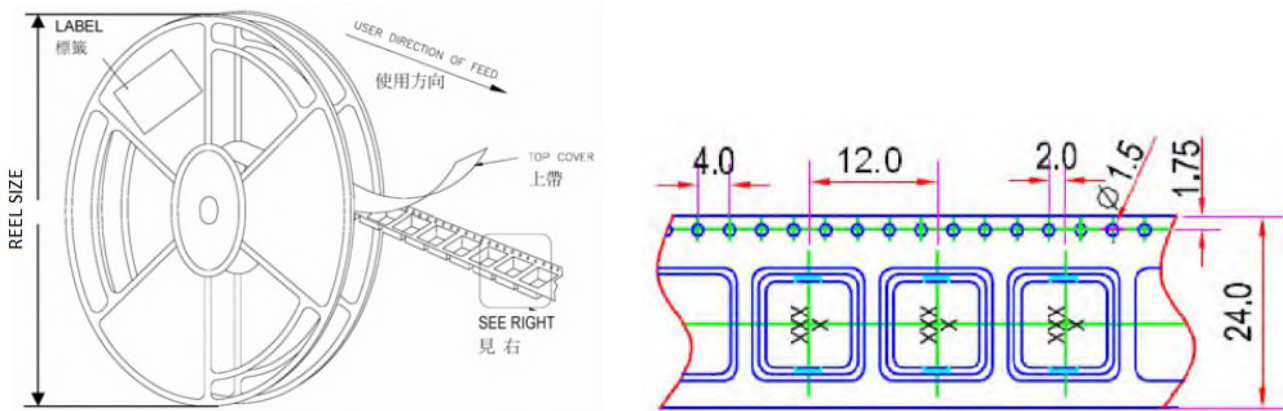
2.3. IWT test: Chroma 19301(A).(Impulse winding test)

2.4. Operating temperature: -55°C to 155°C

* Equivalent measurement equipment may be used.



■ REEL DIMENSIONS AND PACKAGING QUANTITY



Unit: mm

TYPE	W	P	REEL SIZE	PCS / REEL
SPIA0804 series	24	12	330 mm (13")	1000
SPIA0854 series	24	12	330 mm (13")	800