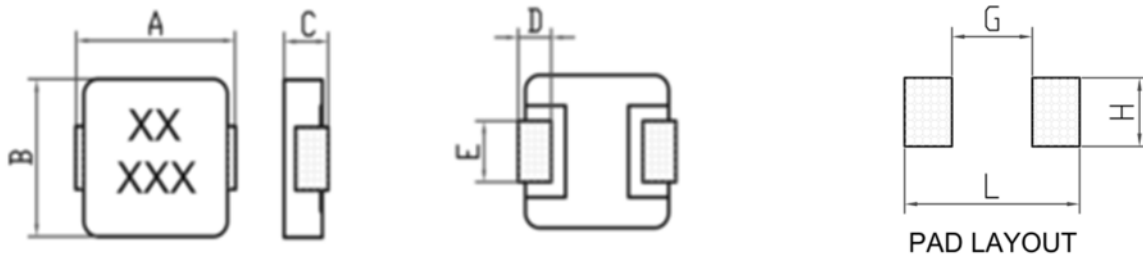




Shielded SMT High Current Power Inductor
Automotive reliability comply with AEC-Q200 grade 1
SPIM0603FS series

■ SHAPES AND DIMENSIONS



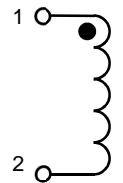
Unit: mm

Item	A	B	C	D	E	G	H	L
SPIM0603FS	7.1±0.2	6.6±0.2	2.8±0.2	1.60±0.3	3.0±0.5	3.7	3.5	8.0

Marking :

XX = MF
XXX = Inductance

Schematic :



■ PART NUMBER CODE

SPIM 0603 FS - 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.
SPIM0603FS-1R0MA	1.0	7.0	8.0	20.0	18.0	15.0	12.5
SPIM0603FS-1R5MA	1.5	9.6	12.0	16.0	14.0	12.0	10.0
SPIM0603FS-2R2MA	2.2	14.0	17.0	13.0	11.0	9.0	8.0
SPIM0603FS-4R7MA	4.7	30.0	33.4	11.0	9.0	7.5	6.0
SPIM0603FS-6R8MA	6.8	41.0	46.8	8.0	7.0	5.5	5.0
SPIM0603FS-8R2MA	8.2	48.0	57.0	6.0	5.5	5.2	4.8
SPIM0603FS-100MA	10.0	62.5	72.0	5.5	5.0	4.8	4.3
SPIM0603FS-150MA	15.0	100.0	120.0	4.5	4.0	3.5	3.3
SPIM0603FS-220MA	22.0	127.0	135.0	4.2	3.5	3.3	2.9

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.

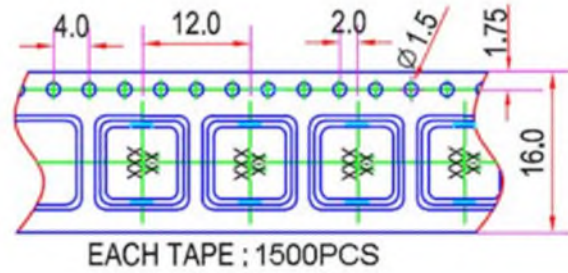
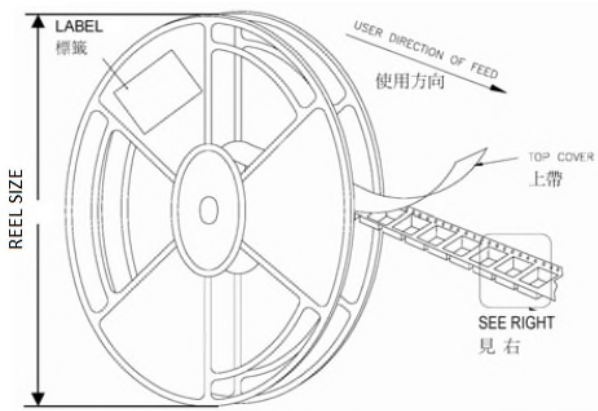
2.2. DCR: Chroma16502 Milliohm Meter

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
SPIM0603FS series	16	12	330 mm (13")	1500