



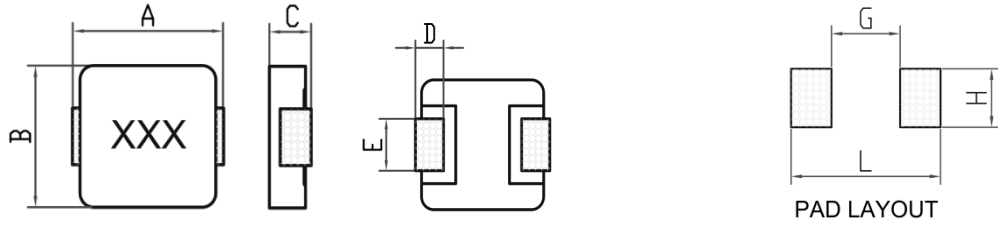
INDEX

SHAPES AND DIMENSIONS.....	1
PART NUMBER CODE	2
ELECTRICAL CHARACTERISTICS	2
REEL DIMENSIONS AND PACKAGING QUANTITY	4



Shielded SMT Power Inductor SPI0503FW Series

■ SHAPES AND DIMENSIONS



Unit: mm

P/N	A	B	C	D	E
SPI0503FW	5.40±0.35	5.20±0.2	2.80±0.2	1.20±0.2	2.20±0.3

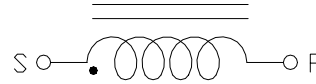
Recommend PAD Layout

G	H	L
2.20	2.50	6.00

Marking :

XXX = Inductance

Equivalent circuit





■ PART NUMBER CODE

SPI 0503 FW - 4R7 M A
1 2 3 4 5 6

1. Series Name
2. Size Code
3. Type Code
4. Inductance(R=Decimal Point) Unit : μH ; 4R7 =4.7 μH
5. Inductance tolerance: "M" $\pm 20\%$
6. Soldering : A=Lead Free

■ ELECTRICAL CHARACTERISTICS

1. Test equipments

- 1.1. L : Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- 1.2. DCR: Chroma16502 Milliohm Meter.
- 1.3. Operating temperature range from -55°C to 125°C

* Equivalent measurement equipment may be used.



2. Part Number and Characteristics Table

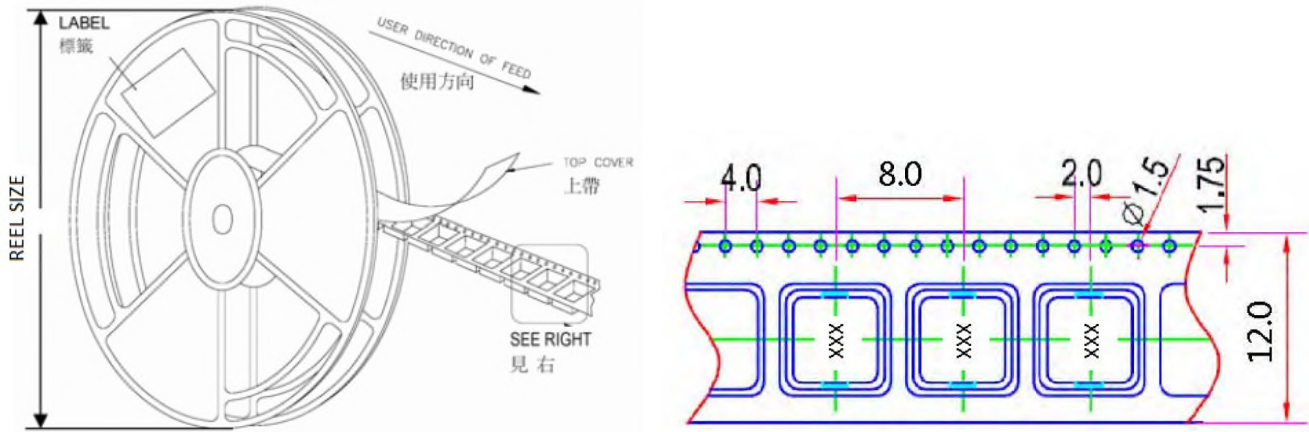
Part No.	Inductance L(uH)	DCR (mΩ)	Isat(A) Typ.	Irms(A) Typ.
		Max.		
SPI0503FW-R10MA	0.10	3.0	30	25
SPI0503FW-R20MA	0.20	3.9	20	14
SPI0503FW-R33MA	0.33	5.5	18	14
SPI0503FW-R47MA	0.47	8.5	15	11
SPI0503FW-R68MA	0.68	12	11.5	9.0
SPI0503FW-1R0MA	1.0	14	10	8.5
SPI0503FW-1R2MA	1.2	16	9.5	8.5
SPI0503FW-1R5MA	1.5	25	9.0	8.2
SPI0503FW-2R2MA	2.2	29	7.0	7.0
SPI0503FW-3R3MA	3.3	38	6.0	5.5
SPI0503FW-4R7MA	4.7	60	4.6	4.5
SPI0503FW-6R8MA	6.8	90	3.6	3.5
SPI0503FW-100MA	10	125	3.5	3.2

Note:

- All test data is referenced to 25°C ambient.
- Test Condition: 100KHz, 0.25 Vrms.
- Isat (Typ): DC current (A) that will cause L0 to drop approximately 30%.
- Irms (Typ): DC current (A) that will cause an approximate ΔT of 40°C.



■ REEL DIMENSIONS AND PACKAGING QUANTITY



Unit: mm

TYPE	W	P	REEL SIZE	PCS / REEL
SPI0503FW	12	8	330 mm (13")	2000