

### ◆ Feature

1. Lowest height in this package footprint.
2. Shielded construction.
3. Handles high transient current spikes without saturation.
4. Lowest DCR/ $\mu\text{H}$ , in this package size.
5. Frequency range up to 5MHz.
6. Ultra low buzz noise, due to composite construction.
7. Lead Free and RoHS compliant.

RoHS



### ◆ Application

Excellent for power line DC-DC conversion applications used in power switching, personal computers and other handheld electronic equipment.

### ◆ How to Order

**SMP 1203 W 6R8 M V01**

(1) (2) (3) (4) (5) (6)

(1) Series Name

(2) Dimension

(3) Type: Material code

(4) Inductance: 6R8= 6.8  $\mu\text{H}$

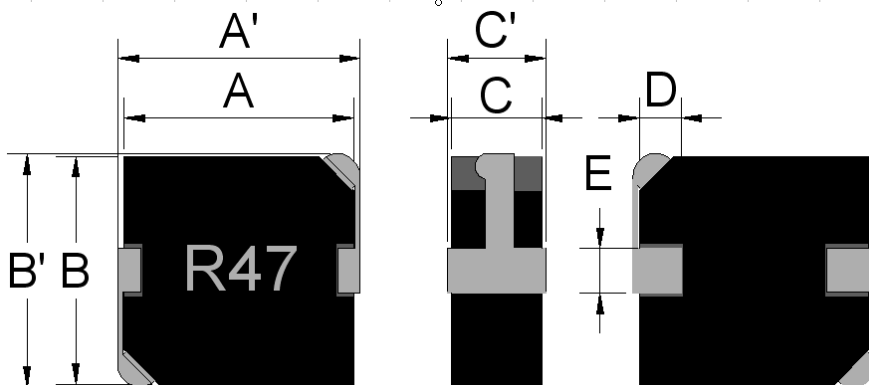
(5) Inductance Tolerance: M= $\pm 20\%$

(6) Control S/N

### ◆ Dimension

Unit: mm

SMP 1203 W Series	A	A'	B	B'	C	C'	D	E
	12.7 $\pm$ 0.3	13.9 Max.	12.7 $\pm$ 0.3	13.5 Max.	3.5 Max.	3.7 Max.	2.5 $\pm$ 0.5	3.0 $\pm$ 0.5



### ◆ Specification

Part Number	Inductance L0 (uH)±20% @ 0 A	I rms (A) Typ.	I sat (A) Typ.	DCR (mΩ) Max.	Q Min.
SMP1203W-R47-M-V01	0.47	32	44	2	12
SMP1203W-R68-M-V01	0.68	28	40	2.5	12
SMP1203W-1R0-M-V01	1	24	36	3.5	20
SMP1203W-1R5-M-V01	1.5	19	28	5.5	20
SMP1203W-2R2-M-V01	2.2	16	20	8	20
SMP1203W-3R3-M-V01	3.3	12	18	12	20
SMP1203W-4R7-M-V01	4.7	10	16	15	20
SMP1203W-6R8-M-V01	6.8	9	13	22	20
SMP1203W-100-M-V01	10	7	9.5	34	20

### ◆ Package

Type	SMD		
Size(mm)	0603	1004	1203
Series	SPI0703AR	SPI1004AR	SMP1203W
Package(PCS)			
Size(mm)	0603	1004	1203
Chip / Reel	100	500	600
Inner Box	2000	1000	1200
Carton	8000	4000	4800