



SMPI SERIES

SMD Type Ultra High Current Power Inductor.

FEATURES

1. Lowest height in this package footprint.
2. Shielded construction.
3. Lowest DCR/ μH , in this package size.
4. Handles high transient current spikes without saturation.
5. Ultra low buzz noise, due to composite construction.
6. Frequency up to 5MHz.
7. The products contain no lead and also support lead-free soldering.

APPLICATIONS

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

ORDERING CODE (标志示例)

SMPI	1203	HW	R68	M
SMPI	1254	P3	R68	M
(1)	(2)	(3)	(4)	(5)

- | | | |
|--------------------------|-------|---------------|
| (1) Type | 类型 | |
| (2) Dimension | 尺寸 | |
| (3) Series | 系列 | |
| (4) Inductance | 电感量 | |
| (5) Inductance Tolerance | 电感量公差 | M: $\pm 20\%$ |

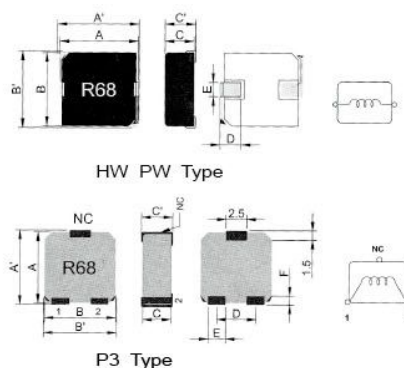
特征

1. 同尺寸高度最低。
2. 遮蔽式电感结构。
3. 同尺寸直流阻抗最低。
4. 可确保耐电流电感值降幅平顺。
5. 一体成型的结构可防止燥音。
6. 应用频率可达5MHz。
7. 产品无铅适合无铅焊锡。

应用

适合用于电源供应器、个人电脑和其他掌上型电子设备中电源线路直流对直流整流的应用。

SHAPE AND DIMENSIONS (形状尺寸)



Unit: mm

TYPE	A	A'	B	B'	C	C'	D	E	F
SMPI 0603	6.86 $\pm$ 0.5	7.8 max.	6.47 $\pm$ 0.5	7.0 max.	3.0 max.	3.2 max.	1.6 $\pm$ 0.5	2.1 $\pm$ 0.5	—
SMPI 0604	6.86 $\pm$ 0.5	7.8 max.	6.47 $\pm$ 0.5	7.0 max.	4.0 max.	4.2 max.	1.6 $\pm$ 0.5	2.1 $\pm$ 0.5	—
SMPI 1004	10.7 $\pm$ 0.5	11.8 max.	10.0 $\pm$ 0.5	10.5 max.	4.0 max.	4.2 max.	2.2 $\pm$ 0.5	2.9 $\pm$ 0.5	—
SMPI 1203	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	—
SMPI 1205	12.7 $\pm$ 0.3	13.9 max.	12.7 $\pm$ 0.3	13.5 max.	5.0 max.	5.2 max.	2.5 $\pm$ 0.5	3.0 $\pm$ 0.5	—
SMPI 1254	12.9 $\pm$ 0.3	13.9 max.	12.9 $\pm$ 0.3	13.9 max.	5.3 max.	5.4 max.	7.6 $\pm$ 0.3	2.0 $\pm$ 0.3	2.0 $\pm$ 0.3



SMPI0603/0604 HW SERIES

Part No. 品名	Thickness (mm) (Max.) 高度	Inductance (μ H) 电感量	D.C.R (m Ω) (Max.) 直流电阻 (最大)	Rated Current(A) (Max) 额定电流 (最大)
SMPI 0603HW-R10M	3.0	0.10 μ H $\pm$ 20%	1.7	32.5
SMPI 0603HW-R15M	3.0	0.15 μ H $\pm$ 20%	2.5	26.0
SMPI 0603HW-R20M	3.0	0.20 μ H $\pm$ 20%	3.0	24.0
SMPI 0603HW-R22M	3.0	0.22 μ H $\pm$ 20%	2.8	23.0
SMPI 0603HW-R33M	3.0	0.33 μ H $\pm$ 20%	3.9	20.0
SMPI 0603HW-R47M	3.0	0.47 μ H $\pm$ 20%	4.2	17.5
SMPI 0603HW-R68M	3.0	0.68 μ H $\pm$ 20%	5.5	15.5
SMPI 0603HW-R82M	3.0	0.82 μ H $\pm$ 20%	8.0	13.0
SMPI 0603HW-1R0M	3.0	1.0 μ H $\pm$ 20%	10	11.0
SMPI 0603HW-1R5M	3.0	1.5 μ H $\pm$ 20%	15	9.0
SMPI 0603HW-2R2M	3.0	2.2 μ H $\pm$ 20%	20	8.0
SMPI 0603HW-3R3M	3.0	3.3 μ H $\pm$ 20%	30	6.0
SMPI 0603HW-4R7M	3.0	4.7 μ H $\pm$ 20%	40	5.5
SMPI 0603HW-6R8M	3.0	6.8 μ H $\pm$ 20%	60	4.5
SMPI 0604HW-8R2M	4.0	8.2 μ H $\pm$ 20%	68	4.0
SMPI 0604HW-100M	4.0	10.0 μ H $\pm$ 20%	105	3.0

SMPI1004 HW SERIES

Part No. 品名	Thickness (mm) (Max.) 高度	Inductance (μ H) 电感量	D.C.R (m Ω) (Max.) 直流电阻 (最大)	Rated Current(A) (Max) 额定电流 (最大)
SMPI 1004HW-R36M	4.0	0.36 μ H $\pm$ 20%	1.4	28
SMPI 1004HW-R47M	4.0	0.47 μ H $\pm$ 20%	1.6	26
SMPI 1004HW-R56M	4.0	0.56 μ H $\pm$ 20%	1.9	25
SMPI 1004HW-R68M	4.0	0.68 μ H $\pm$ 20%	2.4	23
SMPI 1004HW-1R0M	4.0	1.00 μ H $\pm$ 20%	3.5	20
SMPI 1004HW-1R5M	4.0	1.50 μ H $\pm$ 20%	7.5	12
SMPI 1004HW-2R2M	4.0	2.20 μ H $\pm$ 20%	8.56	11.5
SMPI 1004HW-3R3M	4.0	3.30 μ H $\pm$ 20%	10.0	10.0
SMPI 1004HW-4R7M	4.0	4.70 μ H $\pm$ 20%	13.5	8.00
SMPI 1004HW-5R6M	4.0	5.60 μ H $\pm$ 20%	16	7.00
SMPI 1004HW-8R2M	4.0	8.20 μ H $\pm$ 20%	32.5	5.00

□Tolerance: M: $\pm$ 20%



SMPI1203/1205 HW SERIES

Part No. 品名	Thickness (mm) (Max.) 高度	Inductance (μ H) 电感量	D.C.R (m Ω) (Max.) 直流电阻 (最大)	Rated Current(A) (Max) 额定电流 (最大)
SMPI 1203HW-R10M	3.5	0.10 μ H $\pm$ 20%	0.96	43
SMPI 1203HW-R15M	3.5	0.15 μ H $\pm$ 20%	1.2	41
SMPI 1203HW-R22M	3.5	0.22 μ H $\pm$ 20%	1.3	38.5
SMPI 1203HW-R33M	3.5	0.33 μ H $\pm$ 20%	1.5	36.5
SMPI 1203HW-R47M	3.5	0.47 μ H $\pm$ 20%	2.0	32
SMPI 1203HW-R60M	3.5	0.60 μ H $\pm$ 20%	2.5	29
SMPI 1203HW-R68M	3.5	0.68 μ H $\pm$ 20%	2.5	28
SMPI 1203HW-R82M	3.5	0.82 μ H $\pm$ 20%	3.0	25
SMPI 1203HW-1R0M	3.5	1.00 μ H $\pm$ 20%	3.5	24
SMPI 1203HW-1R5M	3.5	1.50 μ H $\pm$ 20%	5.5	19
SMPI 1203HW-1R8M	3.5	1.80 μ H $\pm$ 20%	7.0	16.5
SMPI 1203HW-2R2M	3.5	2.20 μ H $\pm$ 20%	8.0	16
SMPI 1203HW-3R3M	3.5	3.30 μ H $\pm$ 20%	12	12
SMPI 1203HW-4R7M	3.5	4.70 μ H $\pm$ 20%	15	10
SMPI 1203HW-5R6M	3.5	5.60 μ H $\pm$ 20%	18	10
SMPI 1203HW-6R8M	3.5	6.80 μ H $\pm$ 20%	22	9.0
SMPI 1203HW-8R2M	5.0	8.20 μ H $\pm$ 20%	28	8.5
SMPI 1203HW-100M	5.0	10.0 μ H $\pm$ 20%	34	7.0

SMPI1205PW SERIES

Part No. 品名	Thickness (mm) (Max.) 高度	Inductance (μ H) 电感量	D.C.R (m Ω) (Max.) 直流电阻 (最大)	Rated Current(A) (Max) 额定电流 (最大)
SMPI 1205PW-R36M	5.0	0.36 μ H $\pm$ 20%	1.1	41
SMPI 1205PW-R47M	5.0	0.47 μ H $\pm$ 20%	1.3	38
SMPI 1205PW-R50M	5.0	0.50 μ H $\pm$ 20%	1.5	36
SMPI 1205PW-R56M	5.0	0.56 μ H $\pm$ 20%	1.5	36
SMPI 1205PW-R68M	5.0	0.68 μ H $\pm$ 20%	1.7	34
SMPI 1205PW-1R0M	5.0	1.00 μ H $\pm$ 20%	2.5	29
SMPI 1205PW-1R5M	5.0	1.50 μ H $\pm$ 20%	4.1	23

SMPI1254P3 SERIES

Part No. 品名	Thickness (mm) (Max.) 高度	Inductance (μ H) 电感量	D.C.R (m Ω) (Max.) 直流电阻 (最大)	Rated Current(A) (Max) 额定电流 (最大)
SMPI 1254P3-R68M	5.4	0.68 μ H $\pm$ 20%	1.5	29.7
SMPI 1254P3-1R0M	5.4	1.00 μ H $\pm$ 20%	2.0	25.7
SMPI 1254P3-1R2M	5.4	1.20 μ H $\pm$ 20%	2.6	23.1
SMPI 1254P3-2R2M	5.4	2.20 μ H $\pm$ 20%	4.5	17.8
SMPI 1254P3-3R3M	5.4	3.30 μ H $\pm$ 20%	7.0	14.4
SMPI 1254P3-4R7M	5.4	4.70 μ H $\pm$ 20%	8.8	12.8

□Tolerance: M: $\pm$ 20%