

SMD Inductors For Power Line (Wound, Magnetic Shielded)

PPI Series PPI50□□ Type

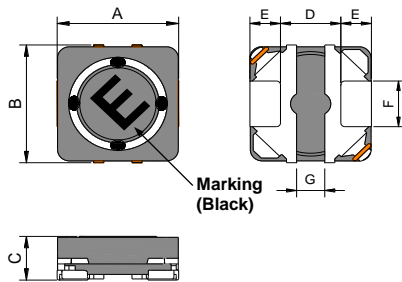
FEATURES

- Miniature size : Mount area 5.2× 5.5mm ; Low profile 1.2~2.0mm max. height
- Generic use for portable DC to DC converter line.
- Available for automatic mounting in tape and reel package.
- The products contain no lead and also support lead-free soldering.
- It is a product conforming to RoHS directive.
- High Reliability for Resistance to Soldering heat.

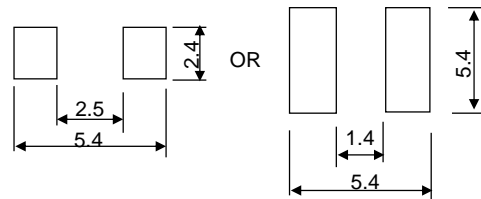
APPLICATIONS

Power source inductor for mobile phones, HDDs, LCD Panel, and DSCs

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERN (Dimensions in mm)



unit: mm

Type	A(±0.2)	B(±0.5)	C(Max.)	D(±0.2)	E(±0.15)	F(±0.2)	G(±0.15)	Reel	Qty
PPI5012	5.0	5.0	1.2	2.7	1.16	2.0	1.5	13"	3,000
PPI5015	5.0	5.0	1.5	2.7	1.16	2.0	1.5	13"	3,000
PPI5020	5.0	5.0	2.0	2.7	1.16	2.0	1.5	13"	3,000

ELECTRICAL CHARACTERISTICS

PT/NO. (PPI50□□)	L(μH)	Resistance RDC(Ω)±20%			Rated DC Current						Marking
					IDC1(A)			IDC2(A)			
		5012	5015	5020	5012	5015	5020	5012	5015	5020	
1R0NZF	1.0	45m		43m	2.50		3.80	2.30		2.60	A
1R2NZF	1.2			43m			3.80			2.60	B
1R5NZF	1.5	52m		55m	2.10		3.00	2.00		2.30	C
2R2NZF	2.2	71m		61m	1.70		2.60	1.70		2.20	E
2R7NZF	2.7		67m	75m		1.70	2.10		2.00	2.00	F
3R3NZF	3.3	80m	76m	77m	1.40	1.50	1.90	1.50	1.80	1.90	G
4R7MZF	4.7	0.12	94m	0.10	1.20	1.20	1.80	1.30	1.60	1.70	I
6R8MZF	6.8	0.15	0.11	0.11	1.00	1.00	1.40	1.10	1.50	1.60	K
8R2MZF	8.2			0.12			1.30			1.55	L
100MZF	10	0.22	0.16	0.13	0.75	0.90	1.10	1.00	1.20	1.50	M
150MZF	15	0.32		0.20	0.65		0.90	0.85		1.15	O
220MZF	22	0.43	0.29	0.23	0.53	0.72	0.75	0.70	0.95	1.00	Q
330MZF	33	0.68		0.29	0.42		0.60	0.50		0.90	S
470MZF	47	1.05		0.40	0.30		0.55	0.38		0.75	U
680MZF	68			0.65			0.46			0.50	W

Remark :

- Tolerance of inductance: M(±20%), N(±30%)
- IDC1 : Based on inductance change ($\Delta L/L_0 : \leq -30\%$) @ ambient temp. 25°C
IDC2 : Based on temperature rise ($\Delta T : 40^\circ\text{C TYP.}$)
Rated DC Current : The less value which is IDC1 or IDC2.

• All specifications are subject to change without notice.

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