

SMD Inductors For Power Line (Wound, Magnetic Shielded)

PPI Series PPI40□□ Type

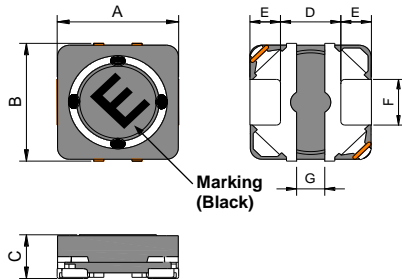
FEATURES

- Miniature size : Mount area 4.2× 4.5mm ; Low profile 1.2~1.8mm 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.

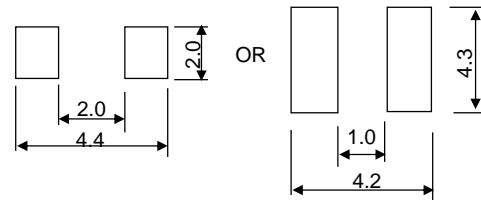
APPLICATIONS

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(±0.1)	F(±0.15)	G(±0.15)	Reel	Qty
PPI4012	4.0	4.0	1.2	2.1	0.96	1.6	1.1	13"	3,000
PPI4015	4.0	4.0	1.5	2.1	0.96	1.6	1.1	13"	3,000
PPI4018	4.0	4.0	1.8	2.1	0.96	1.6	1.1	13"	3,000

ELECTRICAL CHARACTERISTICS

PT/NO. (PPI40□□)	L(μH)	Resistance RDC(Ω)±20%			Rated DC Current						Marking
					IDC1(A)			IDC2(A)			
		4012	4015	4018	4012	4015	4018	4012	4015	4018	
1R0NZF	1.0	51m	43m	41m	2.20	2.30	2.70	2.10	2.30	2.40	A
1R2NZF	1.2	57m		46m	2.00		2.30	2.00		2.20	B
1R5NZF	1.5	67m	50m	51m	1.70	2.00	2.10	1.80	2.05	2.00	C
1R8NZF	1.8			55m			2.00			1.90	D
2R2NZF	2.2	84m	57m	59m	1.50	1.70	1.90	1.55	1.85	1.85	E
2R7NZF	2.7			67m			1.60			1.70	F
3R3NZF	3.3	0.10	80m	74m	1.30	1.30	1.40	1.25	1.60	1.60	G
3R9NZF	3.9			82m			1.30			1.50	H
4R7MZF	4.7	0.14	99m	99m	1.10	1.10	1.20	1.15	1.25	1.35	I
5R6MZF	5.6		0.12	0.11		1.00	1.10		1.20	1.25	J
6R8MZF	6.8	0.17	0.13	0.13	1.00	1.00	1.00	1.05	1.15	1.20	K
8R2MZF	8.2	0.21		0.14	0.90		0.90	1.00		1.10	L
100MZF	10	0.26	0.19	0.15	0.75	0.78	0.85	0.90	1.00	1.00	M
120MZF	12	0.30		0.22	0.66		0.80	0.85		0.95	N
150MZF	15	0.39	0.28	0.24	0.60	0.63	0.70	0.75	0.88	0.90	O
180MZF	18	0.45		0.26	0.55		0.65	0.60		0.85	P
220MZF	22	0.65	0.34	0.32	0.50	0.57	0.55	0.50	0.80	0.75	Q
270MZF	27	0.75		0.42	0.45		0.50	0.45		0.70	R
330MZF	33	0.85	0.53	0.48	0.39	0.44	0.45	0.40	0.56	0.60	S
390MZF	39			0.52			0.43			0.55	T
470MZF	47	1.17	0.75	0.62	0.34	0.35	0.40	0.35	0.40	0.50	U
101MZF	100		1.73	1.78		0.27	0.30		0.30	0.35	Y
221MZF	220			3.40	0.39	0.44	0.20	0.40	0.56	0.27	a
331MZF	330			4.80		0.27	0.18		0.30	0.20	d

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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