

SMD Inductors For Power Line (Wound, Magnetic Shielded)

PPI Series PPI30□□ Type

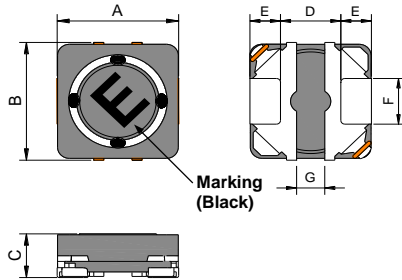
FEATURES

- Miniature size : Mount area 3.2× 3.3mm ; 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.

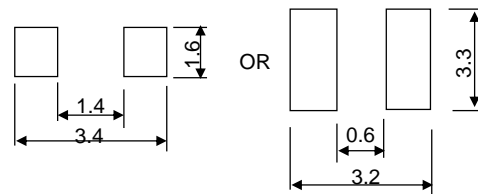
APPLICATIONS

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(±0.3)	C(Max.)	D(±0.15)	E(±0.1)	F(±0.15)	G(±0.1)	Reel	Qty
PPI3012	3.0	3.0	1.2	1.5	0.76	1.2	0.7	13"	3,000
PPI3015	3.0	3.0	1.5	1.5	0.76	1.2	0.7	13"	3,000
PPI3020	3.0	3.0	2.0	1.5	0.76	1.2	0.7	13"	3,000

ELECTRICAL CHARACTERISTICS

PT/NO. (PPI30□□)	L(μH)	Resistance RDC(Ω)±20%			Rated DC Current						Marking
		3012	3015	3020	IDC1(A)			IDC2(A)			
					3012	3015	3020	3012	3015	3020	
1R0NZF	1.0	55m	52m		1.50	2.20		1.80	1.84		A
1R2NZF	1.2	63m	58m	58m	1.40	2.00	2.00	1.65	1.78	1.75	B
1R5NZF	1.5	75m	70m	64m	1.30	1.90	1.80	1.50	1.66	1.70	C
1R8NZF	1.8		80m			1.60			1.56		D
2R2NZF	2.2	0.11	90m	87m	1.00	1.40	1.40	1.30	1.40	1.45	E
2R7NZF	2.7	0.13	0.10		0.90	1.30		1.20	1.30		F
3R3NZF	3.3	0.15	0.11	0.10	0.87	1.20	1.20	1.10	1.25	1.30	G
3R9NZF	3.9	0.18	0.12		0.82	1.10		1.00	1.20		H
4R7MZF	4.7	0.21	0.16	0.15	0.75	1.00	1.00	0.90	1.10	1.15	I
5R6MZF	5.6	0.27	0.20		0.65	0.90		0.80	1.05		J
6R8MZF	6.8	0.33	0.23	0.18	0.60	0.80	0.87	0.70	1.00	1.05	K
8R2MZF	8.2	0.38	0.28	0.20	0.55	0.75	0.76	0.65	0.95	0.95	L
100MZF	10	0.41	0.36	0.24	0.50	0.70	0.60	0.60	0.85	0.85	M
120MZF	12	0.55	0.42		0.45	0.62		0.55	0.77		N
150MZF	15	0.68	0.50		0.40	0.58		0.45	0.67		O
180MZF	18		0.59			0.54			0.56		P
220MZF	22	0.95	0.72	0.60	0.35	0.48	0.50	0.35	0.50	0.60	Q
270MZF	27		0.82			0.40			0.45		R
330MZF	33	1.21			0.26			0.25			S
470MZF	47			1.41			0.32			0.35	U
680MZF	68			1.64			0.27			0.30	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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