

## SMD Inductors For Power Line (Wound, Magnetic Epoxy Shielded)

### PPC Series PPC30□□FT Type

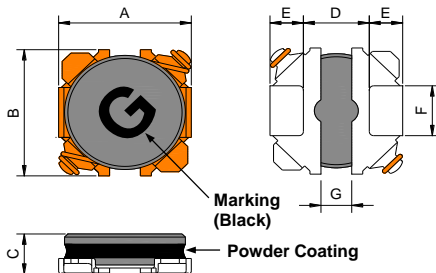
#### FEATURES

- Miniature size : Mount area 3.2x 3.1mm ; Low profile 1.0~2.0mm 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.

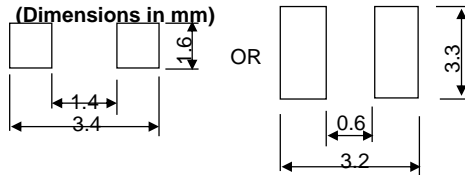
#### APPLICATIONS

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

#### SHAPES AND DIMENSIONS



#### RECOMMENDED PC BOARD PATTERN



unit: mm

Type	A(±0.2)	B(±0.2)	C(Max.)	D(±0.15)	E(±0.1)	F(±0.15)	G(±0.1)	Reel	Qty
PPC3010FT	3.0	2.9	1.0	1.5	0.76	1.2	0.7	13"	3,000
PPC3012FT	3.0	2.9	1.2	1.5	0.76	1.2	0.7	13"	3,000
PPC3015FT	3.0	2.9	1.5	1.5	0.76	1.2	0.7	13"	3,000
PPC3020FT	3.0	2.9	2.0	1.5	0.76	1.2	0.7	13"	3,000

#### ELECTRICAL CHARACTERISTICS

PT/NO. (PPC30□□FT)	L(μH)	Resistance RDC(Ω)±20%				Rated DC Current								Marking
						IDC1(A)				IDC2(A)				
		3010	3012	3015	3020	3010	3012	3015	3020	3010	3012	3015	3020	
R47NZF	0.47		32m				2.80				2.05			6
R56NZF	0.56		38m				2.50				1.95			7
R68NZF	0.68		44m	38m			2.10	3.40			1.85	2.00		8
1R0NZF	1.0	64m	53m	44m	51m	1.50	1.90	3.00	3.60	1.70	1.70	1.85	1.75	A
1R2NZF	1.2	72m	53m	55m	65m	1.30	1.90	2.50	3.20	1.60	1.70	1.70	1.60	B
1R5NZF	1.5	86m	67m	71m	72m	1.10	1.70	2.20	2.90	1.45	1.55	1.55	1.55	C
1R8NZF	1.8			79m				2.00				1.45		D
2R2NZF	2.2	0.12	93m	99m	89m	0.95	1.30	1.90	2.50	1.25	1.40	1.35	1.40	E
2R7NZF	2.7		0.12	0.11			1.20	1.70			1.25	1.30		F
3R3NZF	3.3	0.17	0.13	0.12	0.13	0.80	1.10	1.60	1.90	1.00	1.20	1.25	1.20	G
3R9NZF	3.9	0.20				0.70				0.90				H
4R7MZF	4.7	0.25	0.19	0.18	0.17	0.65	0.95	1.30	1.60	0.85	0.95	1.05	1.05	I
5R6MZF	5.6	0.30	0.22	0.20		0.60	0.83	1.20		0.78	0.85	1.00		J
6R8MZF	6.8	0.35	0.26	0.22	0.26	0.55	0.80	1.10	1.30	0.70	0.80	0.95	0.88	K
8R2MZF	8.2	0.40		0.31	0.32	0.50		1.00	1.20	0.65		0.80	0.79	L
100MZF	10	0.49	0.36	0.33	0.36	0.45	0.65	0.95	1.10	0.60	0.67	0.75	0.73	M
150MZF	15	0.68	0.53	0.54	0.57	0.38	0.55	0.70	0.90	0.50	0.56	0.60	0.57	O
220MZF	22	1.00	0.79	0.78	0.89	0.33	0.45	0.65	0.74	0.40	0.41	0.42	0.40	Q
330MZF	33	1.40	1.14	1.38	1.11	0.27	0.36	0.50	0.62	0.37	0.31	0.31	0.36	S
470MZF	47		1.53	1.68	1.71		0.30	0.40	0.50		0.22	0.26	0.25	U
680MZF	68				2.24				0.28				0.20	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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