

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

### PPS Series PPS50□□FT Type

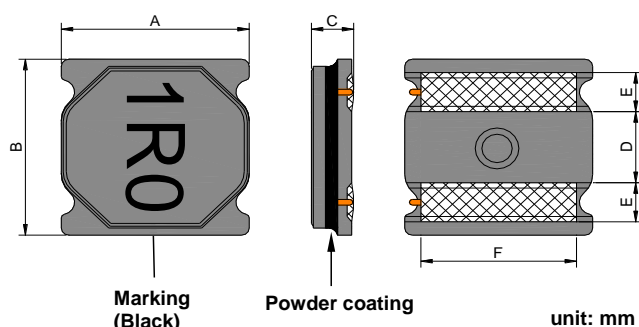
#### FEATURES

- Miniature size : Mount area 5.2× 5.2mm ; Low profile 1.2~4.0mm 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.

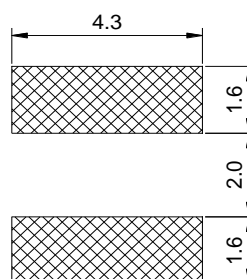
#### APPLICATIONS

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

#### SHAPES AND DIMENSIONS



#### RECOMMENDED PC BOARD PATTERN (Dimensions in mm)



Type	A(±0.2)	B(±0.2)	C(Max.)	D(Typ.)	E(Typ.)	F(Typ.)	Reel	Qty
PPS5012FT	5.0	5.0	1.2	2.0	1.10	4.10	13"	3,000
PPS5014FT	5.0	5.0	1.4	2.0	1.10	4.10	13"	3,000
PPS5020FT	5.0	5.0	2.0	2.0	1.10	4.10	13"	3,000
PPS5040FT	5.0	5.0	4.0	2.0	1.10	4.10	13"	3,000

#### ELECTRICAL CHARACTERISTICS

PT/NO. (PPS50□□FT)	L(μH)	Resistance RDC(Ω)±20%				Rated DC Current								Marking
						IDC1(A)				IDC2(A)				
		5012	5014	5020	5040	5012	5014	5020	5040	5012	5014	5020	5040	
R47N	0.47		32m	15m			5.00	7.00			3.00	5.10		R47
1R0N	1.0	70m	45m	25m		3.70	4.40	5.50		2.20	2.50	3.90		1R0
1R2N	1.2			25m				5.00				3.90		1R2
1R5N	1.5	85m	60m	30m		3.00	3.30	4.50		2.00	2.40	3.30		1R5
2R2N	2.2	85m	65m	42m		2.50	2.80	3.60		2.00	2.20	2.80		2R2
3R3N	3.3	0.16	94m	61m		2.00	2.40	3.20		1.45	1.90	2.50		3R3
3R9N	3.9			74m				3.20				2.30		3R9
4R7N	4.7	0.23	0.15	84m		1.70	1.90	2.90		1.25	1.60	2.10		4R7
6R8M	6.8	0.30	0.20	0.10		1.20	1.50	2.30		1.10	1.30	1.70		6R8
100M	10	0.43	0.25	0.14		1.10	1.20	1.80		0.90	1.05	1.45		100
150M	15	0.62		0.22		0.90		1.50		0.75		1.10		150
220M	22	0.84	0.64	0.32		0.65	0.70	1.30		0.55	0.58	0.87		220
330M	33			0.50				1.00				0.65		330

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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