

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

PPS Series PPS30□□FT Type

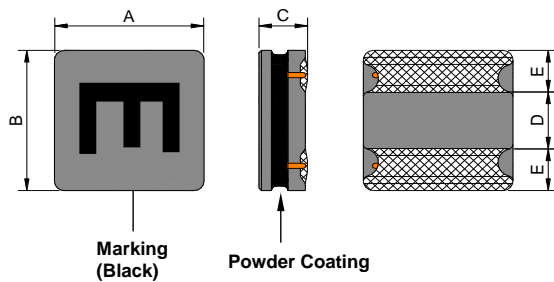
FEATURES

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

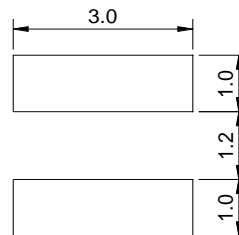
APPLICATIONS

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

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERN (Dimensions in mm)



unit: mm

Type	A(±0.2)	B(±0.2)	C(Max.)	D(Typ.)	E(Typ.)	Reel	Qty
PPS3010FT	3.0	3.0	1.0	1.2	0.90	7"	2,000
PPS3012FT	3.0	3.0	1.2	1.2	0.90	7"	2,000
PPS3015FT	3.0	3.0	1.5	1.2	0.90	7"	2,000
PPS3020FT	3.0	3.0	2.0	1.2	0.90	13"	3,000

ELECTRICAL CHARACTERISTICS

PT/NO. (PPS30□□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	
R47N	0.47			23m	25m			3.00	4.00			3.30	4.00	6
1R0N	1.0	65m	50m	30m	29m	1.50	1.60	2.30	2.50	1.75	2.00	2.90	3.00	A
1R2N	1.2				34m								2.40	B
1R5N	1.5	80m	60m	40m	39m	1.30	1.36	1.80	2.10	1.55	1.80	2.20	2.30	C
2R2M	2.2	95m	80m	60m	48m	1.10	1.20	1.50	1.60	1.40	1.55	1.80	2.00	E
3R3M	3.3	0.14	0.10	80m	70m	0.87	0.91	1.21	1.40	1.20	1.40	1.55	1.60	G
3R9M	3.9			0.105				1.05				1.45		H
4R7M	4.7	0.19	0.15	0.12	96m	0.75	0.83	1.10	1.20	1.00	1.20	1.30	1.40	I
6R8M	6.8	0.30	0.21	0.16	0.14	0.61	0.67	1.00	1.00	0.87	0.97	1.15	1.20	K
100M	10	0.45	0.29	0.23	0.20	0.50	0.60	0.80	0.80	0.70	0.80	0.95	0.98	M
150M	15	0.60	0.45	0.36	0.27	0.40	0.44	0.65	0.62	0.60	0.65	0.73	0.83	O
180M	18			0.41				0.55				0.67		P
220M	22	0.92	0.69	0.52	0.42	0.35	0.38	0.50	0.53	0.48	0.55	0.62	0.70	Q
330M	33	1.30	1.03	0.84	0.59	0.27	0.31	0.45	0.44	0.41	0.45	0.50	0.58	S
470M	47		1.33	1.34	0.95		0.25	0.37	0.36		0.40	0.40	0.42	U
820M	82			2.00				0.27				0.37		X
101M	100				1.80					0.26			0.33	Y

Remark :

1. Tolerance of inductance: M(±20%), N(±30%)
2. 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.

TUSTIN OFFICE:

15991 Red Hill Avenue, Suite #102,
Tustin, California 92780 USA
Tel:+1-714-460-0718 Fax:+1-714-460-0728
<http://www.palnova.com>

MILPITAS OFFICE:

500 Yosemite Drive,
Milpitas, CA. 95035 USA
Tel:+1-408-855-8866 Fax:+1-408-855-8868