PWD 07xx Series SMD Unshielded Power Inductor

Features

- Small size and low profile.
- Open magnetic circuit.
- Competitive cost solution.

Applications

- DC/DC buck, Boost application.
- Ideally used in Notebook PC，LCD TV, DVD，Game machine, STB, Projector etc.

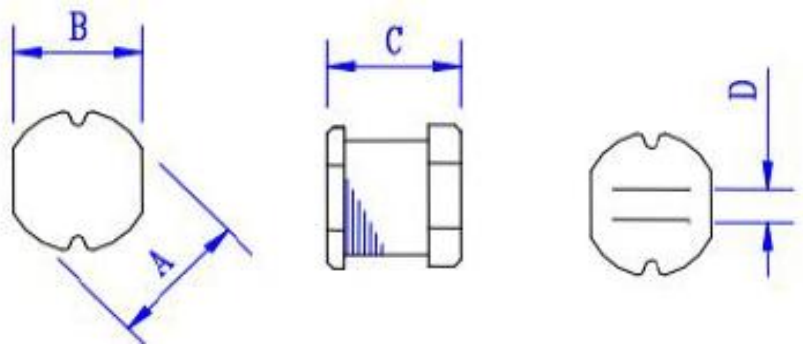
Yint P/N Information

①	②	③	④	⑤	⑥	⑦
PW	D	0705	-100	M	0	T

① Product series
② Material
③ Size
④ Inductance
⑤ Tolerance
⑥ Special code
⑦ Taping information

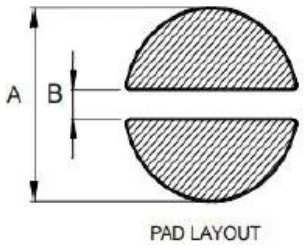
④	Nominal Inductance[μH]
Example	Nominal Value[μH]
1R2	1.2 μH
100	10 μH
101	100 μH
⑤	Inductance Tolerance
K	±10%
M	±20%

Shape & Dimension information



Dimensions in mm

Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
PWD0703	7.8±0.3	7.0±0.3	3.8Max	2.5 Typ.
PWD0705	7.8±0.3	7.0±0.3	5.5Max	2.5 Typ.

TYPE	A	B
PWD0705	8.0	2.2
PWD0705	8.0	2.2

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Specification

Yint P/N	Inductance	DC Resistance	Saturation Current
	L0 (μH)	DCR (mΩ)	Isat (A)
	-	Max.	Typ.
PWD0703-2R2M0T	2.2	30	3.20
PWD0703-4R7M0T	4.7	40	1.60
PWD0703-100M0T	10	80	1.44
PWD0703-120M0T	12	90	1.39
PWD0703-150M0T	15	100	1.24
PWD0703-180M0T	18	110	1.12
PWD0703-220M0T	22	130	1.07
PWD0703-270M0T	27	150	0.94
PWD0703-330M0T	33	170	0.85
PWD0703-390M0T	39	220	0.74
PWD0703-470M0T	47	250	0.68
PWD0703-560M0T	56	280	0.64
PWD0703-680M0T	68	330	0.59
PWD0703-820M0T	82	410	0.54
PWD0703-101M0T	100	480	0.51
PWD0703-121M0T	120	540	0.49
PWD0703-151M0T	150	750	0.40
PWD0703-181M0T	180	1020	0.36
PWD0703-221M0T	220	1200	0.31
PWD0703-271M0T	270	1310	0.29
PWD0703-331M0T	330	1500	0.28
PWD0703-561M0T	560	2500	0.14

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Specification

Yint P/N	Inductance	DC Resistance	Saturation Current
	L0 (μH)	DCR (mΩ)	Isat (A)
	-	Max.	Typ.
PWD0705-1R2M0T	1.2	15.0	5.20
PWD0705-2R2M0T	2.2	21.0	5.00
PWD0705-3R3M0T	3.3	28.0	4.00
PWD0705-3R9M0T	3.9	35.0	4.00
PWD0705-4R7M0T	4.7	36.0	3.80
PWD0705-5R6M0T	5.6	42.0	3.10
PWD0705-6R8M0T	6.8	52.0	2.80
PWD0705-8R2M0T	8.2	55.0	2.52
PWD0705-100M0T	10	50.0	2.31
PWD0705-120M0T	12	55.0	2.00
PWD0705-150M0T	15	71.5	1.81
PWD0705-180M0T	18	84.5	1.59
PWD0705-220M0T	22	91.0	1.50
PWD0705-270M0T	27	106.6	1.28
PWD0705-330M0T	33	119.6	1.20
PWD0705-390M0T	39	149.5	1.08
PWD0705-470M0T	47	175.5	1.05
PWD0705-560M0T	56	208.0	0.93
PWD0705-680M0T	68	234.0	0.83
PWD0705-101M0T	100	325.0	0.73
PWD0705-121M0T	120	390.0	0.65
PWD0705-151M0T	150	520.0	0.58
PWD0705-181M0T	180	598.0	0.51
PWD0705-221M0T	220	793.0	0.48
PWD0705-331M0T	330	1130	0.39
PWD0705-471M0T	470	1680	0.33
PWD0705-681M0T	680	2470	0.27
PWD0705-102M0T	1000	2800	0.18

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Testing Conditions:

1. All test data is base on 25 °C ambient .
   Inductance measuring frequency: L≤10uH at 100KHz/0.25V, L＞10uH at 1KHz/0.25V.
2. Operating temperature range - 40 °C to + 105 °C ，
3. Isat(A): DC current will cause L0 to drop approximately 20 %
4. The part temperature (ambient + temp rise) should not exceed 105 °C under worst cases.
5. Storage Temperature: Under 25℃,Humidity < 65% RH.If product is preserved for more than 12 months, the solderability of their ter-minals may be deteriorated.

Reel & QTY information

Series	MPQ(Pcs)	Reel (mm)	W / P (mm)
PWD0703	1000	13″	16 / 8
PWD0705	700	13″	16 / 8