

## PWD 10xx 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.

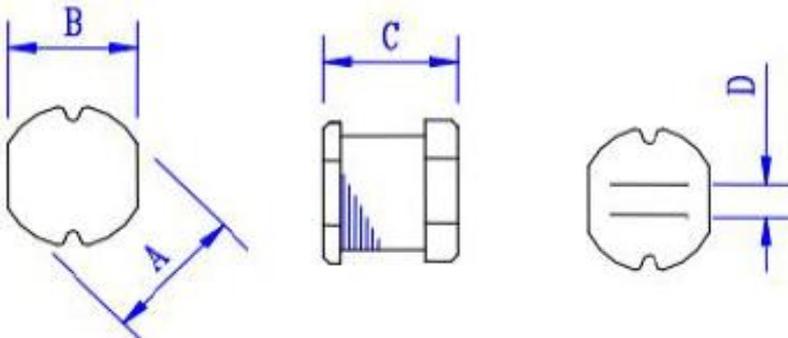


### Yint P/N Information

- ① PW   ② D   ③ 1005   ④ -100   ⑤ M   ⑥ 0   ⑦ T
- ① Product series
  - ② Material
  - ③ Size
  - ④ Inductance
  - ⑤ Tolerance
  - ⑥ Special code
  - ⑦ Taping information

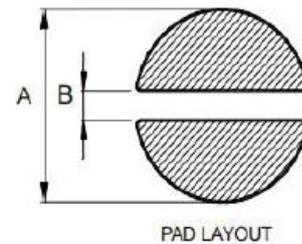
④ Nominal Inductance[μH]	
Example	Nominal Value[μH]
R80	0.8 μH
1R0	1.0 μH
100	10 μH
⑤ Inductance Tolerance	
K	±10%
M	±20%

### Shape & Dimension information



Dimensions in mm

### Recommended Pattern



PAD LAYOUT

Dimensions in mm

TYPE	A	B	C	D
PWD1005	10.0±0.3	9.0±0.3	5.8Max	3.2 Typ.
PWD1006	10.0±0.3	9.0±0.3	6.8Max	3.2 Typ.

TYPE	A	B
PWD1005	8.0Typ.	2.2Typ.
PWD1006	10.5Typ.	3.0Typ.

## PWD 10xx Series SMD Unshielded Power Inductor

## Specification

Yint P/N	Inductance	DC Resistance	Saturation Current
	L0 (μH)	DCR (mΩ)	Isat (A)
	-	Max.	Typ.
PWD1005-R80M0T	0.8	8.45	8.0
PWD1005-1R3M0T	1.3	13.78	6.8
PWD1005-2R7M0T	2.7	17.81	5.5
PWD1005-3R3M0T	3.3	19.50	5.0
PWD1005-4R7M0T	4.7	22.10	4.6
PWD1005-5R6M0T	5.6	23.79	4.0
PWD1005-6R8M0T	6.8	26.00	3.6
PWD1005-8R2M0T	8.2	31.20	3.2
PWD1005-100M0T	10	34.45	2.58
PWD1005-120M0T	12	40.30	2.44
PWD1005-150M0T	15	45.50	2.26
PWD1005-220M0T	22	70.20	1.93
PWD1005-270M0T	27	84.11	1.74
PWD1005-330M0T	33	92.30	1.46
PWD1005-470M0T	47	135.2	1.26
PWD1005-680M0T	68	200.2	1.10
PWD1005-820M0T	82	230.1	0.98
PWD1005-101M0T	100	260.0	0.95
PWD1005-121M0T	120	351.0	0.87
PWD1005-181M0T	180	494.0	0.70
PWD1005-221M0T	220	572.0	0.65
PWD1005-331M0T	330	845.0	0.50
PWD1005-471M0T	470	1180	0.40
PWD1005-561M0T	560	1420	0.30
PWD1005-681M0T	680	1990	0.28
PWD1005-821M0T	820	2030	0.24
PWD1005-102M0T	1000	3100	0.20

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**Specification**

Yint P/N	Inductance	DC Resistance	Saturation Current
	L0 (μH)	DCR (mΩ)	Isat (A)
	-	Max.	Typ.
PWD1006-1R0M0T	1.0	8.0	9.0
PWD1006-150M0T	15	43	2.9
PWD1006-220M0T	22	53	2.4
PWD1006-330M0T	33	82	1.9
PWD1006-470M0T	47	120	1.6
PWD1006-680M0T	68	156	1.2
PWD1006-101M0T	100	250	1.0
PWD1006-151M0T	150	364	0.86
PWD1006-221M0T	220	494	0.71
PWD1006-331M0T	330	724	0.58
PWD1006-471M0T	470	1000	0.50

**Testing Conditions:**

- All test data is base on 25 °C ambient .  
Inductance measuring frequency:  $L \leq 10\mu\text{H}$  at 100KHz/0.25V,  $L > 10\mu\text{H}$  at 1KHz/0.25V.
- Operating temperature range - 40 °C to + 105 °C
- Isat(A): DC current will cause L0 to drop approximately 20 %
- The part temperature (ambient + temp rise) should not exceed 105 °C under worst cases.
- Storage Temperature: Under 25°C, 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)
PWD1005	700	13"	24 / 12
PWD1006	500	13"	24 / 12