

## PWD 0321Series 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

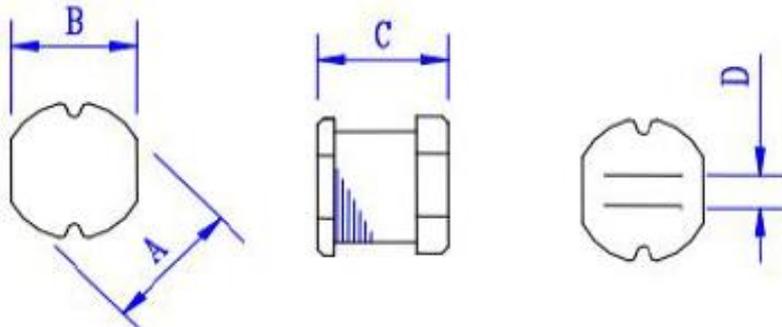
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• PW D 0321 -100 M 0 T

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

④ Nominal Inductance[ $\mu$ H]	
Example	Nominal Value[ $\mu$ H]
R82	0.82 $\mu$ H
1R0	1.0 $\mu$ H
100	10 $\mu$ H
⑤ Inductance Tolerance	
M	$\pm$ 20%
N	$\pm$ 30%

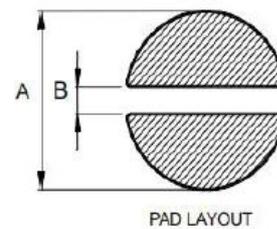
### Shape & Dimension information



Dimensions in mm

TYPE	A	B	C	D
PWD0321	3.3 $\pm$ 0.3	3.0 $\pm$ 0.3	2.1 $\pm$ 0.3	1.0Typ.

### Recommended Pattern



Dimensions in mm

TYPE	A	B
PWD0321	4.5	1.0

## PWD 0321Series SMD Unshielded Power Inductor

## Specification

Yint P/N	Inductance	DC Resistance	Saturation Current
	L0 (μH)	DCR (mΩ)	Isat (A)
	1MHz, 1V	Max.	Typ.
PWD0321-R82M0T	0.82	60	2.20
PWD0321-1R0M0T	1.0	70	2.08
PWD0321-1R2M0T	1.2	80	2.00
PWD0321-1R4M0T	1.4	90	1.86
PWD0321-1R5M0T	1.5	110	1.80
PWD0321-1R8M0T	1.8	110	1.80
PWD0321-2R2M0T	2.2	130	1.39
PWD0321-2R7M0T	2.7	140	1.32
PWD0321-3R3M0T	3.3	170	1.25
PWD0321-3R9M0T	3.9	190	1.20
PWD0321-4R7M0T	4.7	210	1.13
PWD0321-5R6M0T	5.6	220	0.91
PWD0321-6R8M0T	6.8	250	0.85
PWD0321-8R2M0T	8.2	280	0.82
PWD0321-100M0T	10	320	0.74
PWD0321-120M0T	12	350	0.64
PWD0321-150M0T	15	400	0.60
PWD0321-180M0T	18	480	0.54
PWD0321-220M0T	22	580	0.50
PWD0321-270M0T	27	650	0.43
PWD0321-330M0T	33	800	0.40
PWD0321-390M0T	39	900	0.37
PWD0321-470M0T	47	1190	0.36
PWD0321-560M0T	56	1270	0.31
PWD0321-680M0T	68	1730	0.3
PWD0321-820M0T	82	1990	0.28

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**Specification**

Yint P/N	Inductance	DC Resistance	Saturation Current
	L0 (μH)	DCR (mΩ)	Isat (A)
	1MHz, 1V	Max.	Typ.
PWD0321-101M0T	100	2520	0.25
PWD0321-121M0T	120	2900	0.20
PWD0321-151M0T	150	3.36	0.19
PWD0321-181M0T	180	5.10	0.17
PWD0321-221M0T	220	5800	0.16
PWD0321-271M0T	270	7800	0.14

**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)
PWD0321	3,000	13"	12 / 8