

PWD 0403 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.

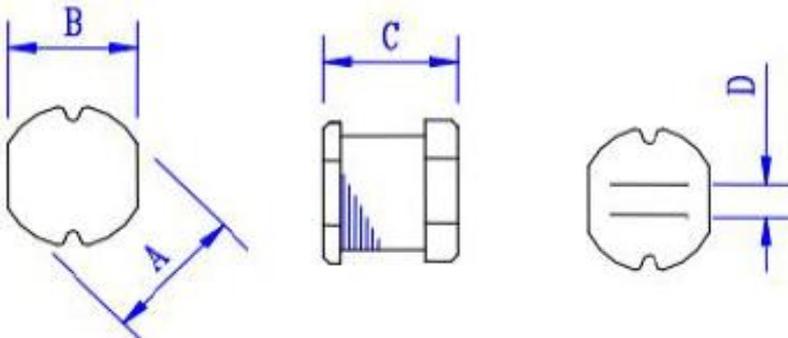


Yint P/N Information

- ① PW ② D ③ 0403 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[μ H]	
Example	Nominal Value[μ H]
R15	0.15 μ H
1R0	1.0 μ H
100	10 μ H
⑤ Inductance Tolerance	
K	$\pm 10\%$
M	$\pm 20\%$

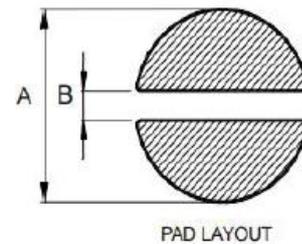
Shape & Dimension information



Dimensions in mm

TYPE	A	B	C	D
PWD0403	4.5 \pm 0.3	4.0 \pm 0.3	3.2 \pm 0.3	1.2Typ.

Recommended Pattern



PAD LAYOUT

Dimensions in mm

TYPE	A	B
PWD0403	5.5	1.2

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Specification

Yint P/N	Inductance	DC Resistance	Saturation Current
	L0 (μH)	DCR (mΩ)	Isat (A)
	1MHz, 1V	Max.	Typ.
PWD0403-1R0M0T	1.0	28	2.60
PWD0403-2R2M0T	2.2	42	2.30
PWD0403-3R3M0T	3.3	56	2.10
PWD0403-3R9M0T	3.9	60	1.90
PWD0403-4R7M0T	4.7	76	1.60
PWD0403-5R6M0T	5.6	83	1.45
PWD0403-6R8M0T	6.8	100	1.35
PWD0403-8R2M0T	8.2	120	1.30
PWD0403-100M0T	10	150	1.00
PWD0403-120M0T	12	155	0.90
PWD0403-150M0T	15	195	0.80
PWD0403-180M0T	18	230	0.70
PWD0403-220M0T	22	270	0.60
PWD0403-270M0T	27	310	0.55
PWD0403-330M0T	33	345	0.50
PWD0403-390M0T	39	400	0.48
PWD0403-470M0T	47	525	0.40
PWD0403-560M0T	56	595	0.38
PWD0403-680M0T	68	740	0.33
PWD0403-101M0T	100	1200	0.26
PWD0403-121M0T	120	1250	0.24
PWD0403-151M0T	150	1600	0.22
PWD0403-181M0T	180	2000	0.19
PWD0403-221M0T	220	2350	0.18
PWD0403-331M0T	330	3550	0.13
PWD0403-471M0T	470	4900	0.12
PWD0403-681M0T	680	8300	0.09

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Testing Conditions:

- 1.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.
- 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°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)
PWD0403	2,000	13"	12 / 8