

# PWR 5040 Series Power Inductor

## Features

- Magnetic-resin shielded construction reduces buzz noise to ultra-low levels.
- Metallization on ferrite core results in excellent shock resistance and damage-free durability.
- Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI)
- 30% higher current rating than conventional inductors of equal size.
- Takes up less PCB real estate and save more power.



## Applications

- LED Lighting.
- Flat-screen TVs, blue-ray disc recorders, set top box, movie cameras, smart phone.
- Notebooks, desktop computers, servers, graphic cards cards.
- Portable gaming devices, personal navigation systems, personal multimedia devices.
- Telecomm base stations.
- VR, AR

## P/N Information

① ② ③ ④ ⑤ ⑥ ⑦

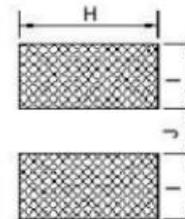
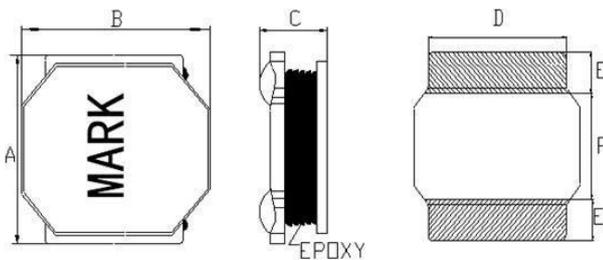
• PW R 5040- 100 M 0 T

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

④ Nominal Inductance[μH]	
Example	Nominal Value[μH]
R15	0.15 μH
1R0	1.0 μH
100	10 μH
⑤ Inductance Tolerance	
M	±20%
N	±30%

## Shape & Dimension information

### Recommended Pattern



Unit : mm

Series	Dimensions								
	A	B	C	D	E	F	H	I	J
PWR5040	5.0±0.2	5.0±0.2	4.1 max	4.0	1.5	2.0	4.2 typ	1.6 typ	1.8 typ

## PWR Series Power Inductor

## Specification information

Yint P/N	Inductance	DC Resistance	Saturation Current	Heating Rating Current
	L0 (μH)	DCR (mΩ)	Isat (A)	Irms (A) ΔT≤40°C
	100kHz, 0.25V	Max.	Typ.	Typ.
PWR5040-1R0N0T	1.0	18	7.50	6.00
PWR5040-1R5N0T	1.5	25	5.50	5.40
PWR5040-2R2M0T	2.2	26	4.90	4.80
PWR5040-3R3M0T	3.3	33	4.00	3.60
PWR5040-4R7M0T	4.7	42	3.50	3.40
PWR5040-6R8M0T	6.8	56	2.90	2.80
PWR5040-100M0T	10	78	2.30	2.20
PWR5040-150M0T	15	104	2.00	1.90
PWR5040-220M0T	22	166	1.60	1.50
PWR5040-270M0T	27	200	1.40	1.30
PWR5040-330M0T	33	228	1.30	1.20
PWR5040-470M0T	47	370	1.10	1.00
PWR5040-560M0T	56	410	1.00	0.95
PWR5040-680M0T	68	600	0.85	0.80
PWR5040-101M0T	100	700	0.70	0.60
PWR5040-151M0T	150	1050	0.65	0.55
PWR5040-221M0T	220	2250	0.40	0.35
PWR5040-331M0T	330	2520	0.38	0.38
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## Testing Conditions:

1. All test data is base on 25 °C ambient .
2. Isat(A): DC current will cause L0 to drop approximately 30 %.
3. Operating temperature range (individual chip without packing): -40°C ~ +125°C (Including Self-heating) .
4. Storage temperature range (packaging conditions): -10°C ~ +40°C and RH 70% (Max.).

## Reel &amp; QTY information

Series	MPQ(Pcs)	Reel (W / P)
PWR5040	1,500	13" (12/8)