

# PWR 5020 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

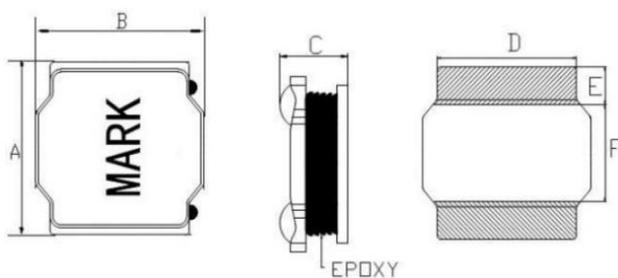
## P/N Information

① ② ③ ④ ⑤ ⑥ ⑦  
 • PW R 5020- 100 M 0 T

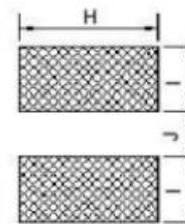
- ① Product series
- ② Material
- ③ Size
- ④ Inductance
- ⑤ Tolerance
- ⑥ Internal code
- ⑦ Taping information

④ Nominal Inductance[ $\mu$ H]	
Example	Nominal Value[ $\mu$ H]
R15	0.15 $\mu$ H
1R0	1.0 $\mu$ H
100	10 $\mu$ H
⑤ Inductance Tolerance	
M	$\pm$ 20%
N	$\pm$ 30%

## Shape & Dimension information



### Recommended Pattern



Unit : mm

Series	Dimensions								
	A	B	C	D	E	F	H	I	J
PWR5020	5.0 $\pm$ 0.2	5.0 $\pm$ 0.2	2.0 max	4.0 typ	1.35 typ	2.3 typ	4.2 typ	1.5 typ	2.1 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) $\Delta T \leq 40^\circ\text{C}$
	100kHz, 0.25V	Max.	Typ.	Typ.
PWR5020-1R0N0T	1.0	26	4.40	4.20
PWR5020-1R5N0T	1.5	34	4.20	4.10
PWR5020-2R2N0T	2.2	49	3.80	3.20
PWR5020-3R3M0T	3.3	63	3.20	3.10
PWR5020-4R7M0T	4.7	78	2.50	2.40
PWR5020-6R8M0T	6.8	106	2.20	2.10
PWR5020-100M0T	10	150	1.50	1.40
PWR5020-150M0T	15	220	1.40	1.30
PWR5020-220M0T	22	294	1.15	1.10
PWR5020-270M0T	27	390	1.10	1.00
PWR5020-330M0T	33	462	1.00	0.60
PWR5020-470M0T	47	630	0.85	0.80
PWR5020-680M0T	68	800	0.60	0.55
PWR5020-101M0T	100	1320	0.55	0.50
PWR5020-221M0T	220	2860	0.35	0.30
PWR5020-102M0T	1000	18000	0.15	0.14

## 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)
PWR5020	2,500	13" (12/8)