

# PWR 40XX 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

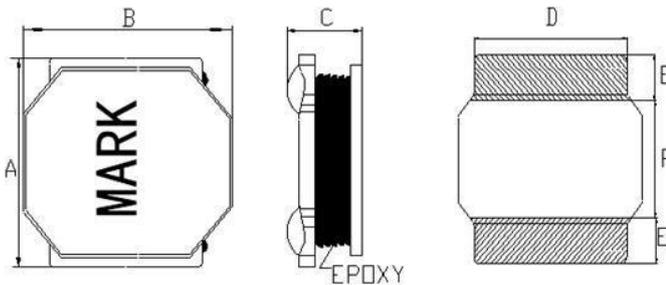
## P/N Information

① ② ③ ④ ⑤ ⑥ ⑦  
 • PW R 4018- 100 M 0 T

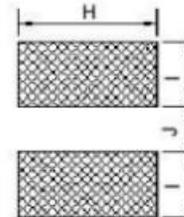
- ① Product series
- ② Material
- ③ Size
- ④ Inductance
- ⑤ Tolerance
- ⑥ Internal code
- ⑦ Taping information

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
PWR4018	4.0±0.2	4.0±0.2	1.8 max	3.4	1.4	1.3	3.5 typ	1.5typ	1.2 typ
PWR4030	4.0±0.2	4.0±0.2	3.0 max	3.4	1.35	1.3	3.5 typ	1.45typ	1.2 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.
PWR4018-R56N0T	0.56	24	5.00	4.80
PWR4018-1R0M0T	1.0	32	4.50	3.50
PWR4018-1R2M0T	1.2	45	4.00	3.00
PWR4018-2R2M0T	2.2	58	3.00	2.60
PWR4018-3R3M0T	3.3	84	2.15	2.00
PWR4018-4R7M0T	4.7	115	2.00	1.80
PWR4018-5R6M0T	5.6	125	1.70	1.65
PWR4018-6R8M0T	6.8	135	1.60	1.50
PWR4018-100M0T	10	220	1.40	1.30
PWR4018-150M0T	15	325	0.95	0.90
PWR4018-220M0T	22	450	0.80	0.75
PWR4018-330M0T	33	680	0.75	0.70
PWR4018-470M0T	47	845	0.65	0.55
PWR4018-680M0T	68	1300	0.52	0.50
PWR4018-101M0T	100	1900	0.42	0.40
PWR4018-151M0T	150	3000	0.36	0.34
PWR4018-221M0T	220	4800	0.30	0.25
-	-	-	-	-
PWR4030-1R0N0T	1.0	28	5.50	4.50
PWR4030-1R5M0T	1.5	41	5.00	3.50
PWR4030-2R2M0T	2.2	46	4.80	3.00
PWR4030-3R3M0T	3.3	65	4.00	2.40
PWR4030-4R7M0T	4.7	78	3.40	2.30
PWR4030-6R8M0T	6.8	125	2.50	2.00
PWR4030-100M0T	10	155	2.20	1.70
PWR4030-150M0T	15	260	1.80	1.20
PWR4030-220M0T	22	292	1.60	1.10
PWR4030-330M0T	33	465	1.20	0.95
PWR4030-470M0T	47	598	1.10	0.80
PWR4030-560M0T	56	694	0.88	0.75
PWR4030-680M0T	68	1087	0.77	0.60
PWR4030-101M0T	100	1440	0.70	0.55
PWR4030-151M0T	150	1820	0.50	0.45
PWR4030-221M0T	220	4500	0.40	0.30

## 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 & QTY information

Series	MPQ(Pcs)	Reel (W / P)
PWR4018	3,000	13" (12/8)
PWR4030	2,000	13" (12/8)