

PWR 8040 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

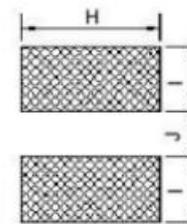
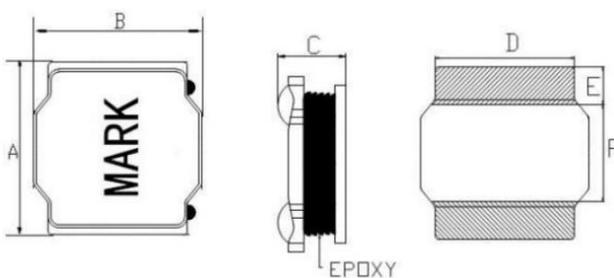
• PW R 8040- 100 M 0 T

- 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
PWR8040	8.0±0.3	8.0±0.3	4.2 max	6.3 typ	2.45 typ	3.1 typ	6.5 typ	2.6 typ	3.0 typ

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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.
PWR8040-1R0N0T	1.0	9	12.00	8.50
PWR8040-1R5N0T	1.5	12	9.50	7.50
PWR8040-2R2M0T	2.2	14	9.00	7.00
PWR8040-3R3M0T	3.3	20	8.00	6.00
PWR8040-4R7M0T	4.7	22	6.20	5.00
PWR8040-6R8M0T	6.8	30	5.00	4.50
PWR8040-100M0T	10	50	4.50	3.50
PWR8040-150M0T	15	60	3.20	3.00
PWR8040-220M0T	22	84	2.80	2.60
PWR8040-330M0T	33	135	2.20	2.00
PWR8040-470M0T	47	180	2.00	1.90
PWR8040-680M0T	68	254	1.60	1.50
PWR8040-101M0T	100	360	1.25	1.20
PWR8040-121M0T	120	400	1.12	0.95
PWR8040-151M0T	150	600	1.00	0.80
PWR8040-221M0T	220	780	0.90	0.80
PWR8040-331M0T	330	1150	0.70	0.65
PWR8040-471M0T	470	1900	0.65	0.60
PWR8040-681M0T	680	2650	0.55	0.50
PWR8040-102M0T	1000	3600	0.40	0.35

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)
PWR8040	1,000	13" (16 /12)