PWR 60XX 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

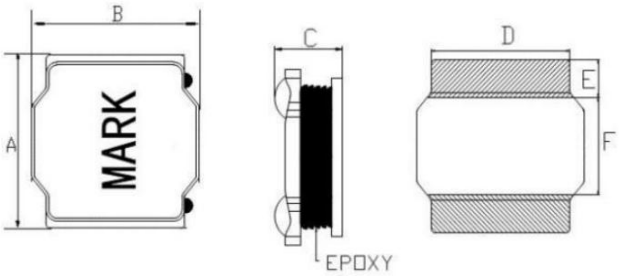
P/N Information

①	②	③	④	⑤	⑥	⑦
PW	R	6028-	100	M	0	T

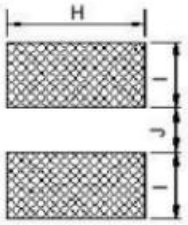
① Product series
② Material
③ Size
④ Inductance
⑤ Tolerance
⑥ Internal code
⑦ Taping information

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
PWR6028	6.0±0.2	6.0±0.2	3.0 max	5.0	1.85	2.3	5.2 typ	2.0 typ	2.1 typ
PWR6045	6.0±0.2	6.0±0.2	4.5 max	4.9	1.65	2.7	5.0 typ	1.85 typ	2.5 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℃
	100kHz, 0.25V	Max.	Typ.	Typ.
PWR6028-1R0N0T	1.0	20	8.00	5.50
PWR6028-1R5N0T	1.5	25	7.00	5.20
PWR6028-2R2M0T	2.2	28	6.00	4.50
PWR6028-3R3M0T	3.3	40	4.50	3.50
PWR6028-4R7M0T	4.7	45	4.00	3.00
PWR6028-5R6M0T	5.6	60	3.50	2.50
PWR6028-6R8M0T	6.8	65	3.20	2.40
PWR6028-100M0T	10	85	2.50	2.00
PWR6028-120M0T	12	96	2.40	1.90
PWR6028-150M0T	15	125	2.30	1.80
PWR6028-220M0T	22	185	1.90	1.40
PWR6028-270M0T	27	210	1.60	1.30
PWR6028-330M0T	33	260	1.40	1.20
PWR6028-470M0T	47	410	1.30	1.00
PWR6028-560M0T	56	420	1.10	0.90
PWR6028-680M0T	68	500	1.00	0.85
PWR6028-820M0T	82	680	0.90	0.80
PWR6028-101M0T	100	750	0.85	0.75
PWR6028-151M0T	150	860	0.65	0.60
PWR6028-221M0T	220	1600	0.55	0.50
PWR6028-331M0T	330	2400	0.43	0.40
PWR6028-471M0T	470	3200	0.35	0.32
PWR6028-681M0T	680	5500	0.32	0.30
PWR6028-821M0T	820	5800	0.26	0.25
PWR6028-102M0T	1000	7800	0.23	0.22
-	-	-	-	-
PWR6045-1R0M0T	1.0	14	9.85	7.00
PWR6045-1R5M0T	1.5	16	9.00	6.00
PWR6045-1R8M0T	1.8	16	7.00	5.50
PWR6045-2R2M0T	2.2	23	6.90	5.40
PWR6045-3R3M0T	3.3	27	5.90	4.50
PWR6045-4R7M0T	4.7	35	5.30	4.20
PWR6045-5R6M0T	5.6	36	4.30	4.10
PWR6045-6R8M0T	6.8	40	4.20	4.00
PWR6045-8R2M0T	8.2	60	3.50	3.20

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Yint P/N	Inductance	DC Resistance	Saturation Current	Heating Rating Current
	L0 (μH)	DCR (mΩ)	Isat (A)	Irms (A) ΔT≦40℃
	100kHz, 0.25V	Max.	Typ.	Typ.
PWR6045-100M0T	10	66	3.30	3.10
PWR6045-120M0T	12	78	3.00	2.80
PWR6045-150M0T	15	88	2.70	2.60
PWR6045-220M0T	22	138	2.20	2.10
PWR6045-270M0T	27	156	2.10	1.90
PWR6045-330M0T	33	182	1.70	1.50
PWR6045-470M0T	47	260	1.65	1.40
PWR6045-680M0T	68	380	1.40	1.10
PWR6045-101M0T	100	550	1.00	0.95
PWR6045-121M0T	120	605	0.95	0.90
PWR6045-151M0T	150	750	0.80	0.75
PWR6045-221M0T	220	1040	0.75	0.70
PWR6045-331M0T	330	2200	0.55	0.45
PWR6045-471M0T	470	2650	0.50	0.40
PWR6045-681M0T	680	3800	0.40	0.35
PWR6045-102M0T	1000	6500	0.32	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℃ ~ +125℃ （Including Self-heating）.
4. Storage Temperature: Under 25℃,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（W / P）
PWR6028	2,000	13″ （16/8)
PWR6045	1,500	13″ （16/8)