PWR2520 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	252012	-100	M	0	T

① Product series

② Material

③ Size

④ Inductance

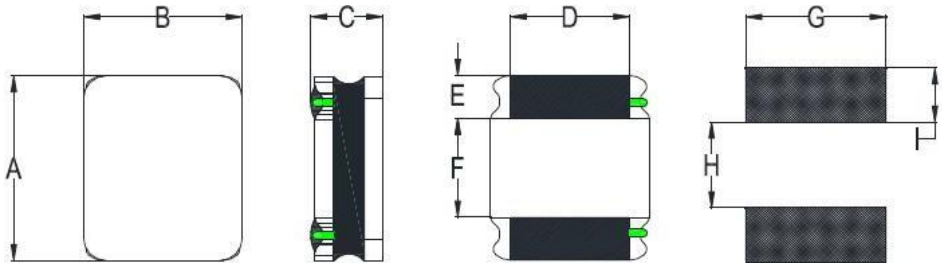
⑤ Tolerance

⑥ Special 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



Series	Dimensions								
	A	B	C	D	E	F	G	H	I
PWR252010	2.5± 0.2	2.0 +0.3/-0.1	1.05Max	1.5±0.2	0.8±0.2	0.8±0.2	2.0Ref	0.8 Ref	0.85 Ref
PWR252012	2.5± 0.2	2.0 +0.3/-0.1	1.25Max	1.5±0.2	0.8±0.2	0.8±0.2	2.0Ref	0.8 Ref	0.85 Ref

PWR2520 Series Power Inductor

Specification

YINT P/N	Inductance	DC Resistance	Saturation Current		Heat Rating Current	
	L0 (μH)	DCR (mΩ)	Isat (A)		Irms (A)	
	1MHz, 1V	Max.	Max.	Typ.	Max.	Typ.
PWR252010-R22M0T	0.22	34	3.60	4.40	2.75	3.00
PWR252010-R24M0T	0.24	34	3.60	4.40	2.75	3.00
PWR252010-R33M0T	0.33	43	3.60	4.30	2.45	2.70
PWR252010-R47M0T	0.47	44	2.80	3.20	2.40	2.60
PWR252010-R68M0T	0.68	62	2.75	3.10	2.10	2.35
PWR252010-1R0M0T	1.0	80	2.05	2.50	1.85	2.05
PWR252010-1R5M0T	1.5	108	1.70	2.05	1.55	1.70
PWR252010-2R2M0T	2.2	150	1.50	1.75	1.35	1.50
PWR252010-3R3M0T	3.3	228	1.10	1.35	1.05	1.20
PWR252010-4R7M0T	4.7	330	1.00	1.15	0.90	1.00
PWR252010-5R6M0T	5.6	480	0.90	1.05	0.80	0.90
PWR252010-6R8M0T	6.8	480	0.80	0.95	0.72	0.80
PWR252010-8R2M0T	8.2	572	0.73	0.85	0.69	0.78
PWR252010-100M0T	10	600	0.65	0.75	0.67	0.74
PWR252010-120M0T	12	850	0.58	0.62	0.58	0.62
PWR252010-150M0T	15	1050	0.50	0.60	0.45	0.50
PWR252010-220M0T	22	1710	0.40	0.50	0.36	0.40
-	-	-	-	-	-	-
PWR252012-R24M0T	0.24	23	4.10	4.80	4.10	4.50
PWR252012-R33M0T	0.33	31	4.00	4.70	3.35	3.70
PWR252012-R47M0T	0.47	36	3.80	4.50	3.00	3.30
PWR252012-R56M0T	0.56	47	3.60	4.20	2.30	2.50
PWR252012-R68M0T	0.68	47	3.00	3.30	2.30	2.50
PWR252012-1R0M0T	1.0	60	2.25	2.50	2.30	2.60
PWR252012-1R2M0T	1.2	78	2.20	2.50	2.00	2.20
PWR252012-1R5M0T	1.5	90	2.00	2.35	1.80	2.00
PWR252012-1R8M0T	1.8	108	1.95	2.20	1.75	1.90
PWR252012-2R2M0T	2.2	108	1.75	1.90	1.75	1.90
PWR252012-2R7M0T	2.7	156	1.30	1.60	1.40	1.50
PWR252012-3R3M0T	3.3	156	1.20	1.35	1.40	1.50
PWR252012-4R7M0T	4.7	228	1.10	1.20	1.10	1.20
PWR252012-5R6M0T	5.6	330	1.00	1.10	1.00	1.15
PWR252012-6R8M0T	6.8	360	0.90	1.10	0.96	1.05
PWR252012-8R2M0T	8.2	520	0.86	1.00	0.70	0.80
PWR252012-100M0T	10	522	0.70	0.85	0.68	0.70
PWR252012-120M0T	12	750	0.65	0.80	0.65	0.68
PWR252012-150M0T	15	1000	0.60	0.70	0.50	0.60
PWR252012-220M0T	22	1290	0.45	0.55	0.48	0.55
PWR252012-330M0T	33	2100	0.35	0.40	0.40	0.45

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 range (packaging conditions): -10℃ ~ +40℃ and RH 70% (Max.).

PWR2520 Series Power Inductor

Reel & QTY information

Series	MPQ(Pcs)	Reel（W/P）
PWR252010	2,000	7″ 8 / 4
PWR252012	2,000	7″ 8 / 4