Assembled 2 in 1 Wire Wound SMD Power Inductors – AWPR-2 Series

Operating Temp. : -55℃~+150℃ (Including self-heating)

FEATURES

- Space reduction is realized by 2 in 1 construction
- Stable saturation and temperature characteristic
- Low DCR and larger current
- AEC-Q200D Grade 0 qualified
- Close magnetic circuit design reduce leakage
- Fe base metal material, gapless design minimizes and mounts easily

APPLICATIONS

- Class-D audio amplifier
- Car audio

PRODUCT IDENTIFICATION

AWPR	121010	H	-	2	-	100	M	T
①	②	③		④		⑤	⑥	⑦

①	Type
AWPR-2	2 in 1 assembled Wire Wound SMD Power Inductor

②	External Dimensions (L×W×H) [mm]
070708	7.0×7.0×8.0
100910	10.0×9.0×10.0
121010	10.2×12.5×10.5

③	Material Code
H	H Type Material

④	Inner Code
2	2 in 1

⑤	Nominal Inductance
Example	Nominal Value
8R2	8.2μH
100	10μH

⑥	Inductance Tolerance
M	±20%

⑦	Packing
T	Tape & Reel

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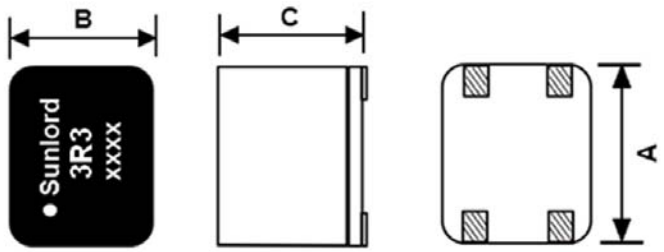
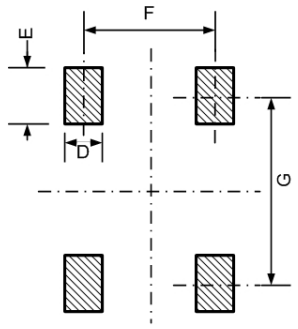
SHAPE AND DIMENSIONS



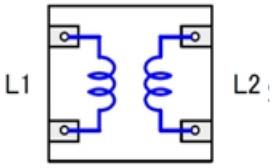
Recommended Land Pattern



Unit: mm

Series	A	B	C	D (Typ.)	E (Typ.)	F (Typ.)	G (Typ.)
AWPR070708H-2	7.0±0.3	7.0±0.3	8.0±0.3	2.0	3.8	4.1	4.9
AWPR100910H-2	10.0±0.3	9.0±0.3	10.0±0.3	2.2	4.7	5.4	6.5
AWPR121010H-2	12.5±0.5	10.2±0.3	10.5±0.5	2.3	3.0	6.3	11.0

EQUIVALENT CIRCUIT



MAGNETIC STRUCTURE

Fixed

SPECIFICATIONS

AWPR070708H Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ		A		A	
Symbol	L	DCR		Isat		Irms	
AWPR070708H-2-3R3MT	3.3±20%	19.2	16.0	5.6	8.0	3.8	4.5
AWPR070708H-2-8R2MT	8.2±20%	45.6	38.0	3.85	5.5	2.5	3.0
AWPR070708H-2-100MT	10.0±20%	54.0	45.0	3.5	5.0	2.3	2.8

AWPR100910H Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ		A		A	
Symbol	L	DCR		Isat		Irms	
AWPR100910H-2-3R3MT	3.3±20%	7.2	6.0	8.4	12.0	5.0	6.0
AWPR100910H-2-8R2MT	8.2±20%	16.8	14.0	5.6	8.0	3.4	4.0
AWPR100910H-2-100MT	10.0±20%	21.6	18.0	4.9	7.0	3.3	3.9
AWPR100910H-2-150MT	15.0±20%	38.4	32.0	3.8	5.5	2.5	3.0
AWPR100910H-2-220MT	22.0±20%	55.2	46.0	3.5	5.0	2.1	2.5

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SPECIFICATIONS

AWPR121010H Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ		A		A	
Symbol	L	DCR		Isat		Irms	
AWPR121010H-2-8R2MT	8.2±20%	16.2	13.5	11.0	15.0	4.8	5.5
AWPR121010H-2-100MT	10±20%	18.0	15.0	10.0	12.0	4.4	5.0
AWPR121010H-2-120MT	12±20%	20.4	17.0	8.0	11.0	4.0	4.5
AWPR121010H-2-150MT	15±20%	22.8	19.0	7.0	10.0	3.5	4.0
AWPR121010H-2-220MT	22±20%	38.4	32.0	5.5	8.0	2.8	3.4

※1 : Rated current: Isat or Irms, whichever is smaller;
※2 : Isat: Max. Value, DC current at which the inductance drops less than 25% from its value without current;
Typ. Value, DC current at which the inductance drops 25% from its value without current.
※3 : Irms: DC current that causes the temperature rise (ΔT) from 25°C ambient when two coils connected in series;
For Max. Value, ΔT is approximate 30℃; For Typ. Value, ΔT is approximate 40℃.

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