



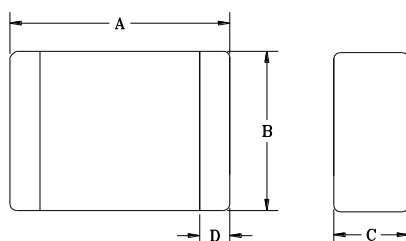
PRODUCT IDENTIFICATION

SWI	252010	FW	- 1R0	M
Type	Size	Material	Inductance	Tol.
		Flat wire		

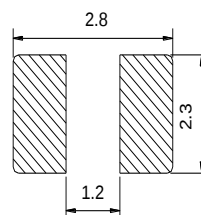
FEATURES

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature :-40~+125°C

DIMENSIONS (mm)



Recommended PC Board Pattern



Part No.	A	B	C
SWI 252010FW	2.50 ± 0.20	2.00 ± 0.20	1.00 max.

SERIES LIST

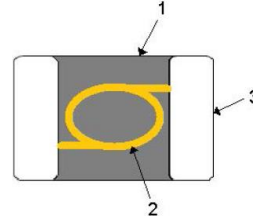
No.	Part No.	L (μH)	Test Freq. (Hz)	RDC (mΩ) Typ. Max.	I sat (A) Typ.	I rms (A) Typ.
1	SWI 252010FW-R24M	0.24±20%	1M/1V	18 22	6.3	5.7
2	SWI 252010FW-R36M	0.36±20%	1M/1V	23 28	4.9	4.7
3	SWI 252010FW-R47M	0.47±20%	1M/1V	28 34	4.5	4.4
4	SWI 252010FW-R68M	0.68±20%	1M/1V	34 41	4.3	4.2
5	SWI 252010FW-R82M	0.82±20%	1M/1V	40 48	4.0	3.8
6	SWI 252010FW-1R0M	1.00±20%	1M/1V	52 62	3.7	3.4
7	SWI 252010FW-1R5M	1.50±20%	1M/1V	82 98	2.9	2.6
8	SWI 252010FW-2R2M	2.20±20%	1M/1V	105 126	2.3	2.2
9	SWI 252010FW-3R3M	3.30±20%	1M/1V	130 156	2.1	2.0
10	SWI 252010FW-4R7M	4.70±20%	1M/1V	230 264	1.6	1.4

Note:

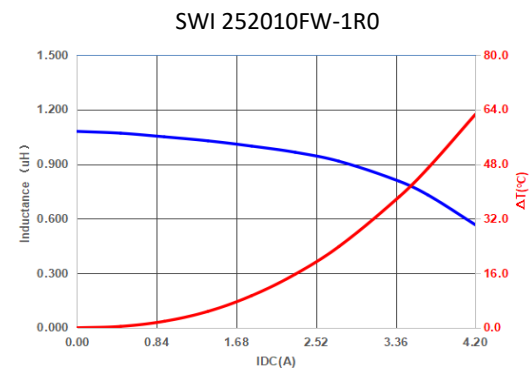
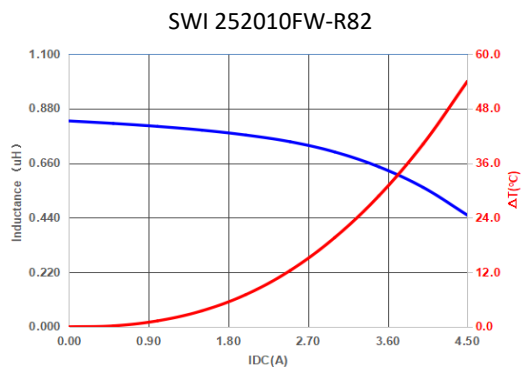
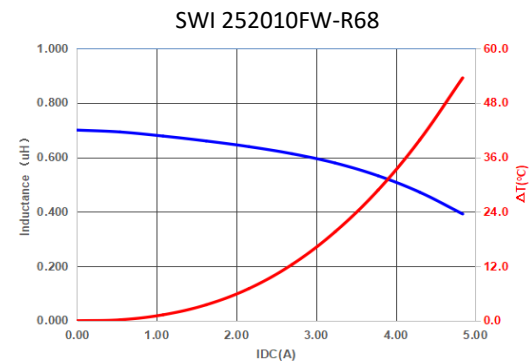
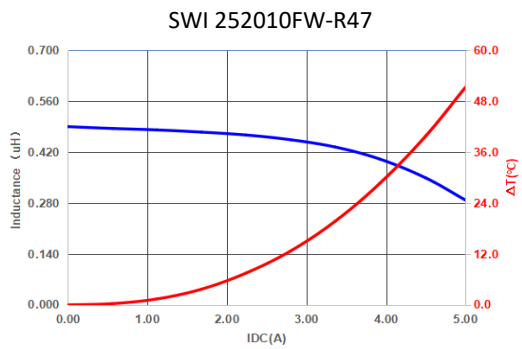
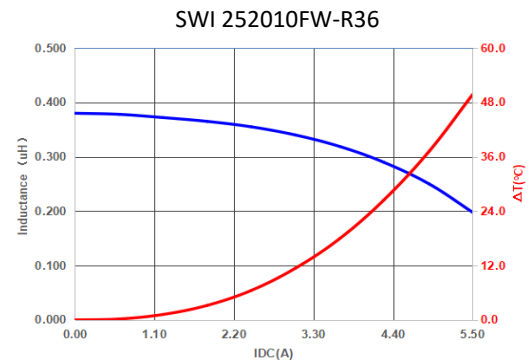
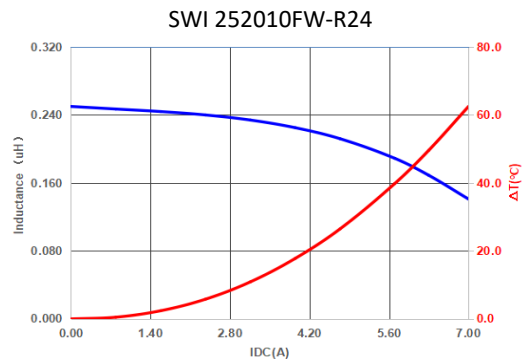
1. All test data referenced to 25°C ambient
2. Isat : Saturation Current (Isat) will cause L0 to drop approximately 30%.
3. Irms : Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40°C
4. Rated DC Current : The less value which is Irms or Isat.

Material List

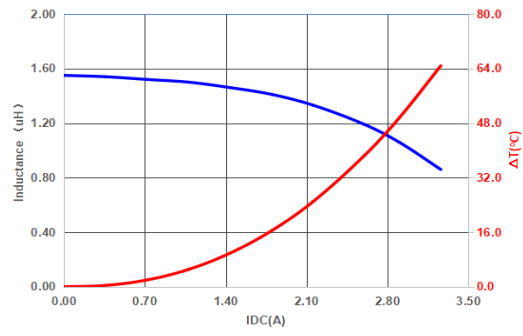
No	Composition part	Material name
1	Alloy Body	Alloy Powder
2	Circuit-Copper	Copper Wire
3	Terminal	Silver paste



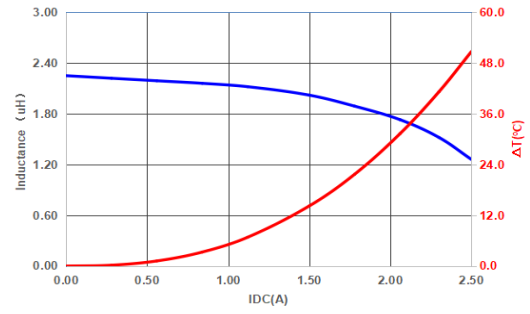
TYPICAL PERFORMANCE CURVES



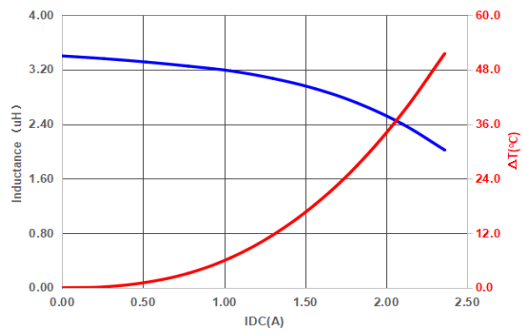
SWI 252010FW-1R5



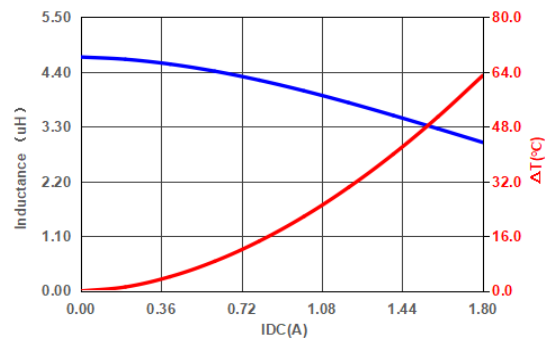
SWI 252010FW-2R2



SWI 252010FW-3R3



SWI 252010FW-4R7



PRODUCT IDENTIFICATION



SWI 252012 FW – 1R0 M

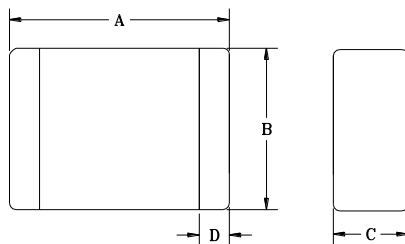
Type Size Inductance Tol.

. Material
. Flat wire

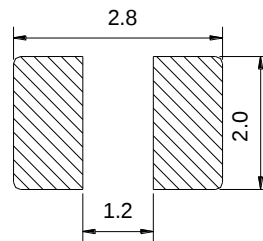
FEATURES

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature :-40~+125°C

DIMENSIONS (mm)



Recommended PC Board Pattern



Part No.	Size (mm)		
	A	B	C
SWI 252012FW	2.50 ± 0.20	2.00 ± 0.20	1.20 max

SERIES LIST

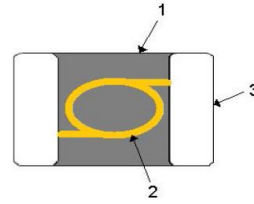
No.	Part No.	L (μH)	Test Freq. (Hz)	RDC (mΩ)		I sat (A)		I rms (A)	
				Max.	Typ.	Max.	Typ.	Max.	Typ.
1	SWI 252012FW-R24M	0.24±20%	1M/1V	18	15	6.5	7.5	5.5	6.2
2	SWI 252012FW-R36M	0.36±20%	1M/1V	21	17	5.6	6.4	4.7	5.4
3	SWI 252012FW-R47M	0.47±20%	1M/1V	25	21	4.6	5.5	4.4	5.0
4	SWI 252012FW-R56M	0.56±20%	1M/1V	29	24	4.5	5.0	4.1	4.8
5	SWI 252012FW-R68M	0.68±20%	1M/1V	34	28	4.0	4.6	3.9	4.5
6	SWI 252012FW-R82M	0.82±20%	1M/1V	39	32	3.8	4.3	3.6	4.1
7	SWI 252012FW-1R0M	1.00±20%	1M/1V	45	37	3.6	4.0	3.3	3.7
8	SWI 252012FW-1R5M	1.50±20%	1M/1V	72	60	2.9	3.3	2.6	3.0
9	SWI 252012FW-2R2M	2.20±20%	1M/1V	98	81	2.3	2.6	2.2	2.5
10	SWI 252012FW-3R3M	3.30±20%	1M/1V	134	112	2.1	2.3	1.9	2.2
11	SWI 252012FW-4R7M	4.70±20%	1M/1V	210	175	1.6	1.8	1.6	1.8

Note:

1. All test data referenced to 25°C ambient
2. Isat : Saturation Current (Isat) will cause L0 to drop approximately 30%.
3. Irms : Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40°C
4. Rated DC Current : The less value which is Irms or Isat.
5. Absolute maximum voltage 20VDC

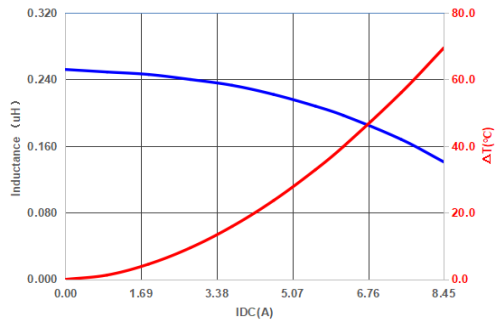
Material List

No	Composition part	Material name
1	Alloy Body	Alloy Powder
2	Circuit-Copper	Copper Wire
3	Terminal	Silver paste

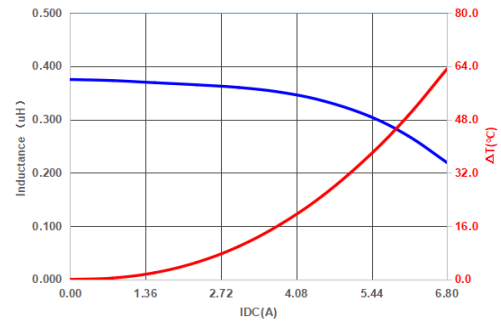


TYPICAL PERFORMANCE CURVES

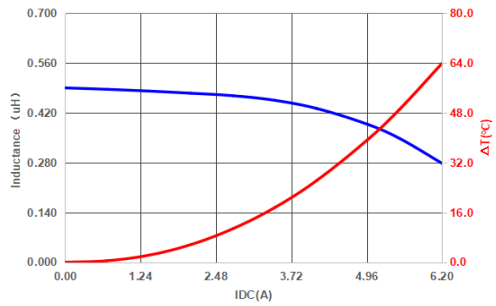
SWI 252012FW-R24



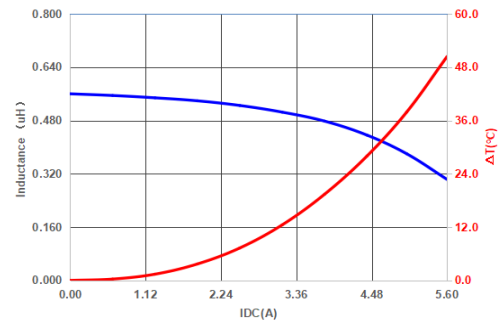
SWI 252012FW-R36



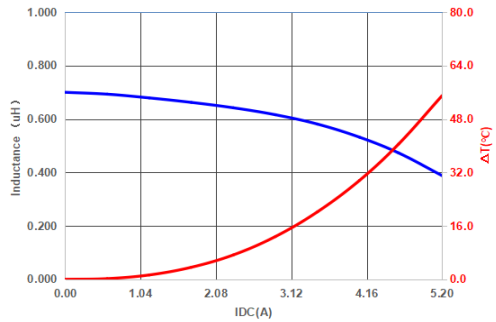
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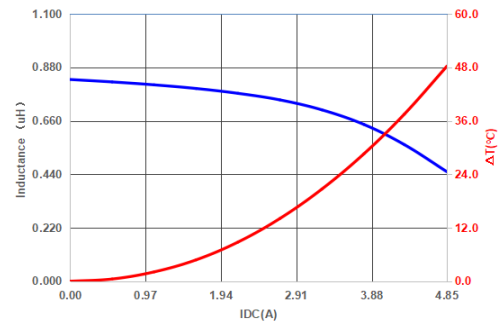
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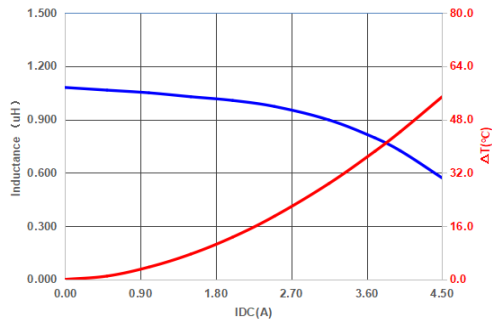
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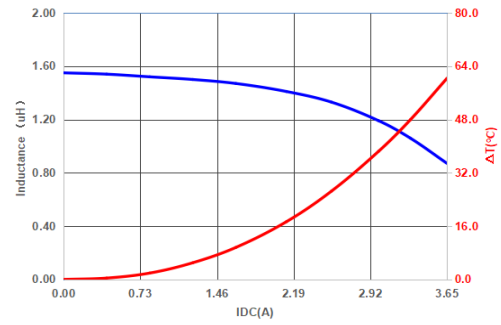
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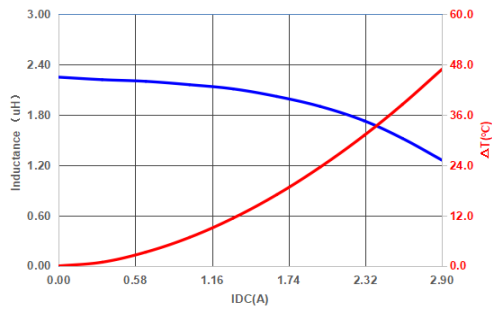
SWI 252012FW-1R0



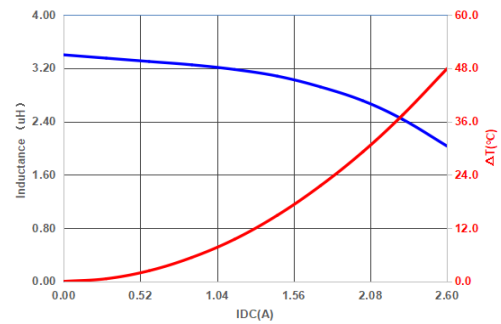
SWI 252012FW-1R5



SWI 252012FW-2R2



SWI 252012FW-3R3



SWI 252012FW-4R7

