



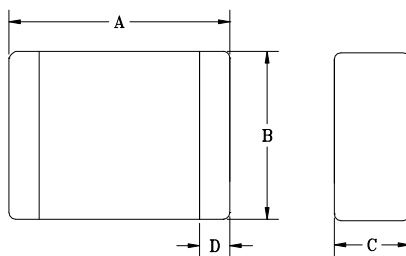
PRODUCT IDENTIFICATION

JWI	252012	FW	- 1R0	M
Type	Size	Inductance		Tol.
		. Material		
		. Flat wire		

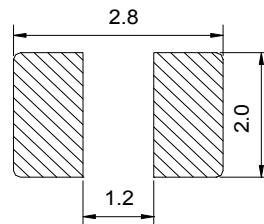
FEATURES

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

DIMENSIONS (mm)



Recommended PC Board Pattern



Part No.	Size (mm)			
	A	B	C	D
JWI 252012FW	2.50 ± 0.20	2.00 ± 0.20	1.20 max.	0.55 ± 0.25

SERIES LIST

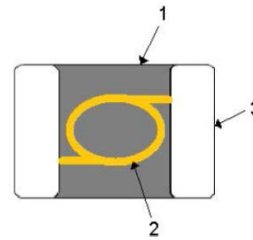
No.	Part No.	L (μH)	Test Freq. (Hz)	RDC (mΩ)		I sat (A)		I rms (A)	
				Max.	Typ.	Max.	Typ.	Max.	Typ.
1	JWI 252012FW-R24M	0.24±20%	1M/1V	18	15	6.5	7.5	5.5	6.2
2	JWI 252012FW-R36M	0.36±20%	1M/1V	21	17	5.6	6.4	4.7	5.4
3	JWI 252012FW-R47M	0.47±20%	1M/1V	25	21	4.6	5.5	4.4	5.0
4	JWI 252012FW-R56M	0.56±20%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

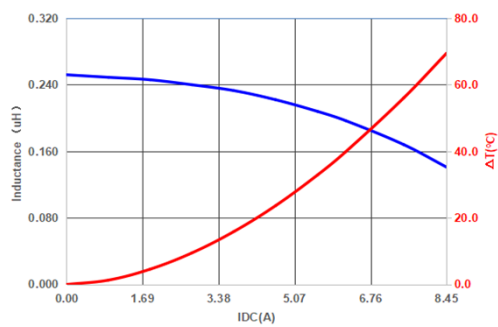
Material List

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

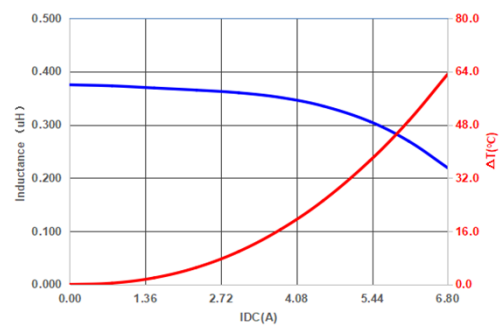


TYPICAL PERFORMANCE CURVES

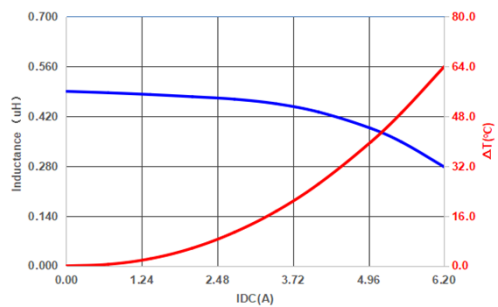
JWI 252012FW-R24



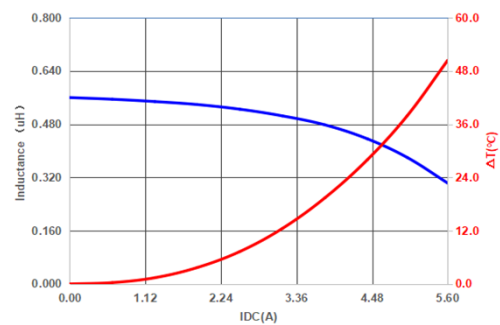
JWI 252012FW-R36



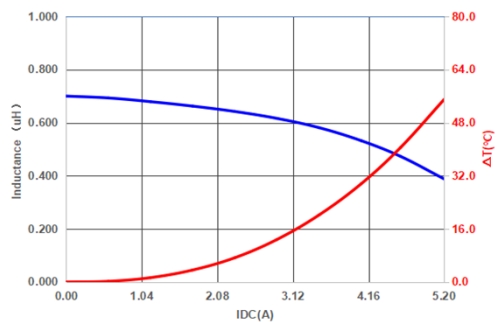
JWI 252012FW-R47



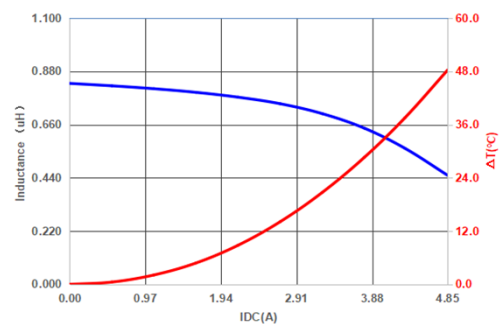
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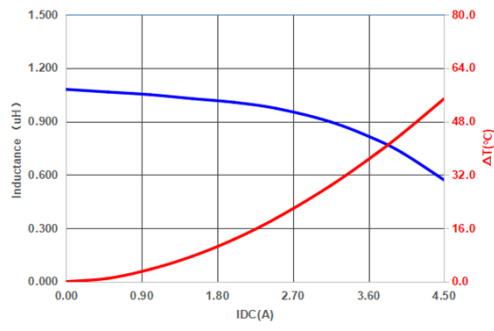
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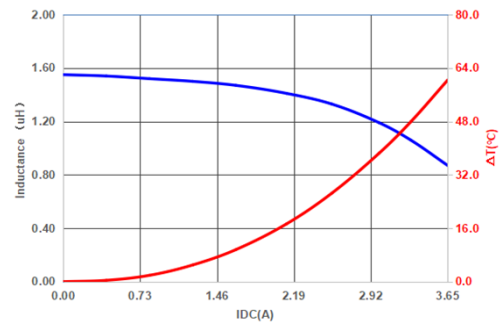
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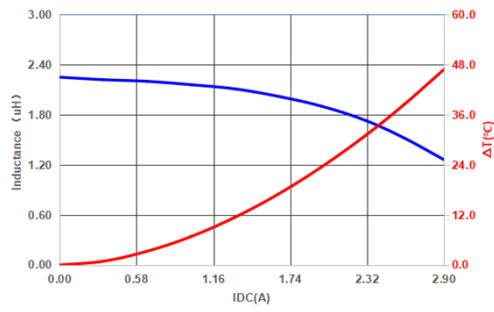
JWI 252012FW-1R0



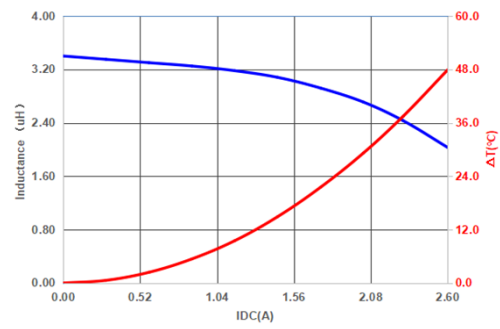
JWI 252012FW-1R5



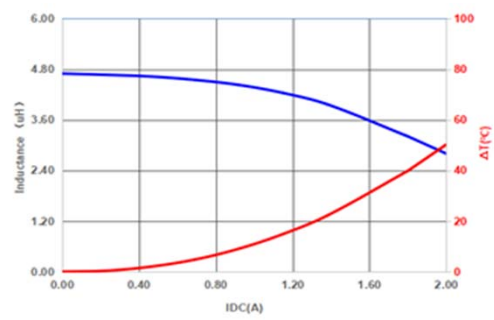
JWI 252012FW-2R2



JWI 252012FW-3R3

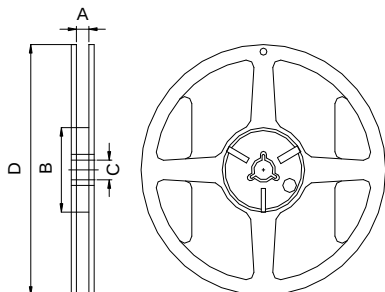


JWI 252012FW-4R7



Packaging Information

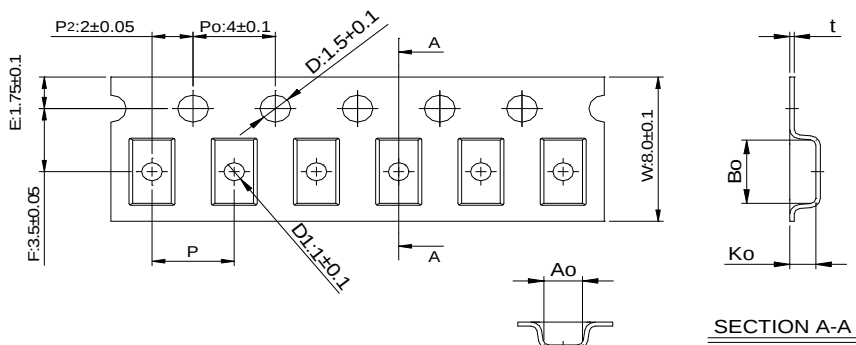
• Reel Dimension



7"x8mm

Type	A(mm)	B(mm)	C(mm)	D(mm)
7"x8mm	9.0 ± 0.5	60 ± 2	13.5 ± 0.5	178 ± 2

• Tape Dimension / 8mm

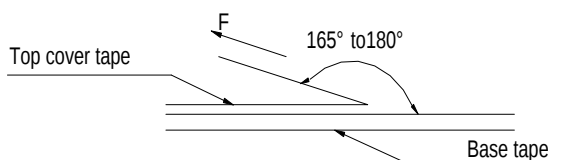


Ao(mm)	Bo(mm)	Ko(mm)	P(mm)	t(mm)
2.45 ± 0.1	3.10 ± 0.1	1.40 ± 0.1	4.0 ± 0.1	0.23 ± 0.05

• Packaging Quantity

Size	Reel
JWI 252012	3000

• Tearing Off Force



The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions (referenced ANSI/EIA-481-D-2008 of 4.11 standard).

Tearing Speed mm	Room Temp. (°C)	Room Humidity (%)	Room atm (hPa)
$300 \pm 10\%$	5~35	45~85	860~1060

■ Application Notice

- Storage Conditions(component level)

To maintain the solderability of terminal electrodes:

1. Products meet IPC/JEDEC J-STD-020E standard-MSL, level 1.
2. Temperature and humidity conditions: Less than 40°C and 60% RH.
3. Recommended products should be used within 12 months form the time of delivery.
4. The packaging material should be kept where no chlorine or sulfur exists in the air.

- Transportation

1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
3. Bulk handling should ensure that abrasion and mechanical shock are minimized.