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W

Features

High saturation current realized by material properties and structure design Low DC resistance to achieve high conversion efficiency and lower temperature rising Low Profile: Thickness in 1.0 mm. Magnetically shielded structure to accomplish high resolution in EMC protection.

Halogen free, Lead Free, RoHS Compliance.

Applications

JHI series is generic applied in portable DC to DC converter line. Smart phone, PAD

Thin-type power supply module,

DC/DC converter

Product Identification JHI 201610 P- 1R0 M L - JB

JHI: SERIES NAME
201610:DIMENSION Size Code
P/S:Material Code
1R0: INDUCTANCE CODE.
M: TOLERANCE, M=20%.
L:Electrode Type
JB: SID Code

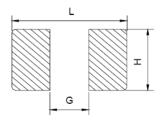
W Т SERIES L Е 2.0±0.2 JHI201610 1.6±0.2 1.0Max 0.5 ± 0.3 JHI252010 2.5±0.2 2.0±0.2 1.0Max 0.6±0.3 JHI252012 2.5±0.2 2.0±0.2 1.2Max 0.6±0.3

Dimensions (mm)

|**▲**___|

L

RECOMMENDER P.C.B LAYOUT



SERIES	L	G	Н
JHI201610	2.3	0.9	1.0
JHI252010	2.8	1.2	2.0
JHI252012	2.8	1.2	2.0





Mulitilayer Power Inductors-JHI Series

Part Number	Inductance	DC Resistance(m Ω)		Isat(A)		Irms(A)	
r alt Nullibei	(uH)	Typical	Max	Typical	Max	Typical	Max
JHI201610P-R24ML-JB	0.24	17	21	5.60	5.05	5.00	4.50
JHI201610P-R33ML-JB	0.33	24	29	5.00	4.50	4.10	3.69
JHI201610P-R47ML-JB	0.47	33	40	4.40	4.00	3.50	3.15
JHI201610P-R68ML-JB	0.68	41	49	3.70	3.33	3.40	3.06
JHI201610P-1R0ML-JB	1.0	60	69	2.90	2.61	2.60	2.26
JHI201610P-1R5ML-JB	1.5	114	129	2.50	2.25	2.00	1.81
JHI201610P-2R2ML-JB	2.2	135	150	1.90	1.71	1.70	1.50
JHI201610S-R47ML-JB	0.47	23	30	6.10	5.30	4.50	4.05
JHI201610S-1R0ML-JB	1.0	48	60	3.90	3.30	3.20	3.00
JHI201610S-1R5ML-JB	1.5	86	99	3.40	3.10	2.40	2.20
JHI201610S-2R2ML-JB	2.2	117	140	2.60	2.45	2.20	2.00

Electrical Characteristics

Note 1: Customized design is available, please contact us.

Note 2: All test referenced to 26 ambient

Note 3: Inductance tolerance +/- 20%

Note 4: Inductance is measured with Agilent® LCR meter 4285A. Test frequency at 1MHz.

Note 5: DC resistance is measured with HIOKI® micro-ohm meter RM3542-01.

Note 6: Isat means that DC current will cause a 30% inductance reduction form initial value.

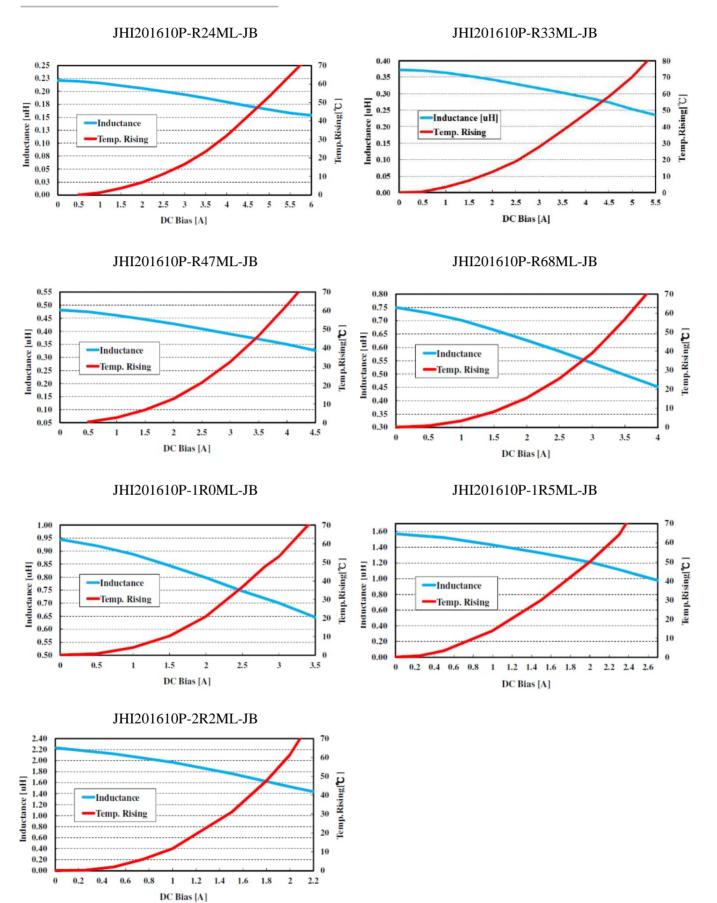
Note 7: Irms means that DC current will cause coil temp. rising to 40 whichever is smaller.

Note 8: Temperature Specifications

Operating Temperature range : -40° C to $+125^{\circ}$ C torage Temperature range : -40° C to $+125^{\circ}$ C

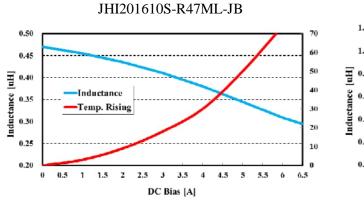




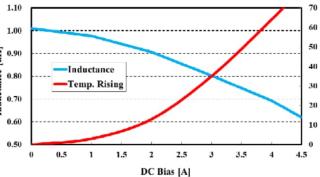


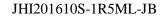


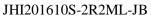


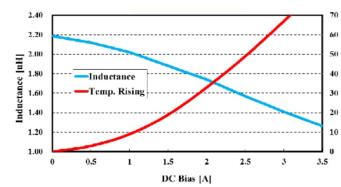


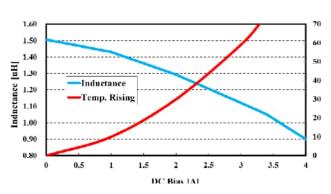
JHI201610S-1R0ML-JB











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Mulitilayer Power Inductors-JHI Series

Part Number	Inductance	DC Resist	ance(m Ω)	Isat(A)		Irms(A)	
Fait Number	(uH)	Typical	Max	Typical	Max	Typical	Max
JHI252010P-R22ML-JB	0.22	9	12.5	7.90	7.20	5.90	5.30
JHI252010P-R33ML-JB	0.33	21	26	6.60	6.00	4.40	4.00
JHI252010P-R47ML-JB	0.47	27	32	5.00	4.50	3.90	3.51
JHI252010P-R68ML-JB	0.68	37	44	4.30	3.87	3.40	3.06
JHI252010P-1R0ML-JB	1.0	45	54	3.50	3.15	3.00	2.70
JHI252010P-1R5ML-JB	1.5	76	91	2.60	2.34	2.50	2.25
JHI252010P-2R2ML-JB	2.2	99	119	2.40	2.16	2.30	2.07
JHI252010P-4R7ML-JB	4.7	220	262	1.80	1.62	1.36	1.22
JHI252010S-R33ML-JB	0.33	17	22	7.80	7.00	5.60	4.80
JHI252010S-R47ML-JB	0.47	23	29	6.60	6.00	5.20	4.40
JHI252010S-1R0ML-JB	1.0	41	52	4.40	4.00	3.40	3.10
JHI252010S-1R5ML-JB	1.5	67	77	3.80	3.50	2.60	2.30
JHI252010S-2R2ML-JB	2.2	88	110	3.30	3.00	2.40	2.10

Electrical Characteristics

Note 1: Customized design is available, please contact us.

Note 2: All test referenced to 26 ambient

Note 3: Inductance tolerance +/- 20%

Note 4: Inductance is measured with Agilent® LCR meter 4285A. Test frequency at 1MHz.

Note 5: DC resistance is measured with HIOKI® micro-ohm meter RM3542-01.

Note 6: Isat means that DC current will cause a 30% inductance reduction form initial value.

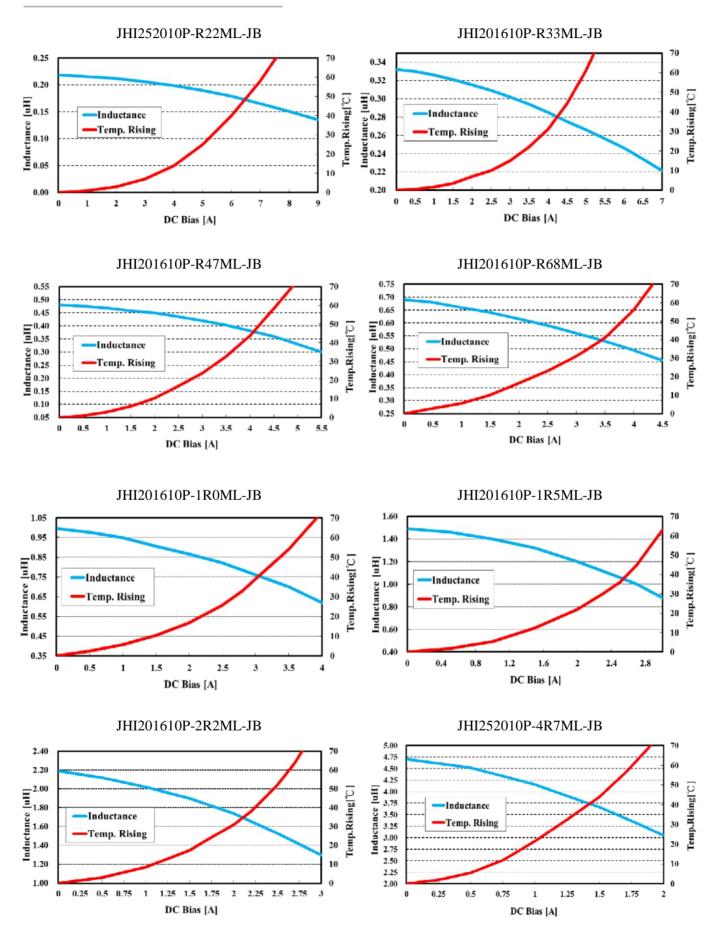
Note 7: Irms means that DC current will cause coil temp. rising to 40 whichever is smaller.

Note 8: Temperature Specifications

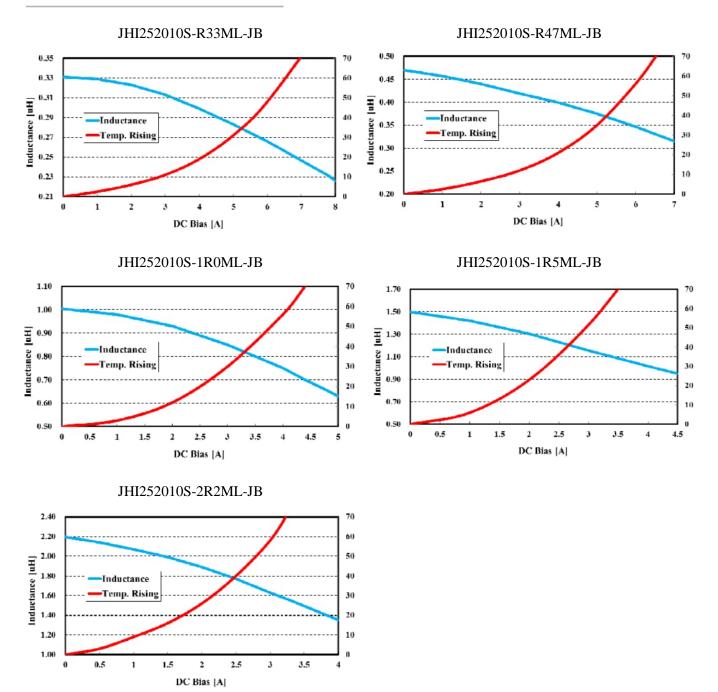
Operating Temperature range : -40° C to $+125^{\circ}$ C torage Temperature range : -40° C to $+125^{\circ}$ C















Part Number	Inductance	DC Resistance(m Ω)		Isat(A)		Irms(A)	
	(uH)	Typical	Max	Typical	Max	Typical	Max
JHI252012P-R47ML-JB	0.47	21	25	5.30	4.95	4.60	4.18
JHI252012P-R68ML-JB	0.68	29	36	5.00	4.63	3.70	3.60
JHI252012P-1R0ML-JB	1.0	41	49	4.40	4.04	3.50	3.18
JHI252012P-1R5ML-JB	1.5	64	77	3.20	2.91	2.50	2.27
JHI252012P-2R2ML-JB	2.2	85	98	3.00	2.73	2.27	2.06
JHI252012P-4R7ML-JB	4.7	196	235	1.90	1.58	1.61	1.40
JHI252012S-R47ML-JB	0.47	16	22	6.80	6.20	5.80	4.90
JHI252012S-1R0ML-JB	1.0	36	44	4.80	4.30	3.90	3.30
JHI252012S-2R2ML-JB	2.2	74	89	3.50	3.20	2.50	2.20

Electrical Characteristics

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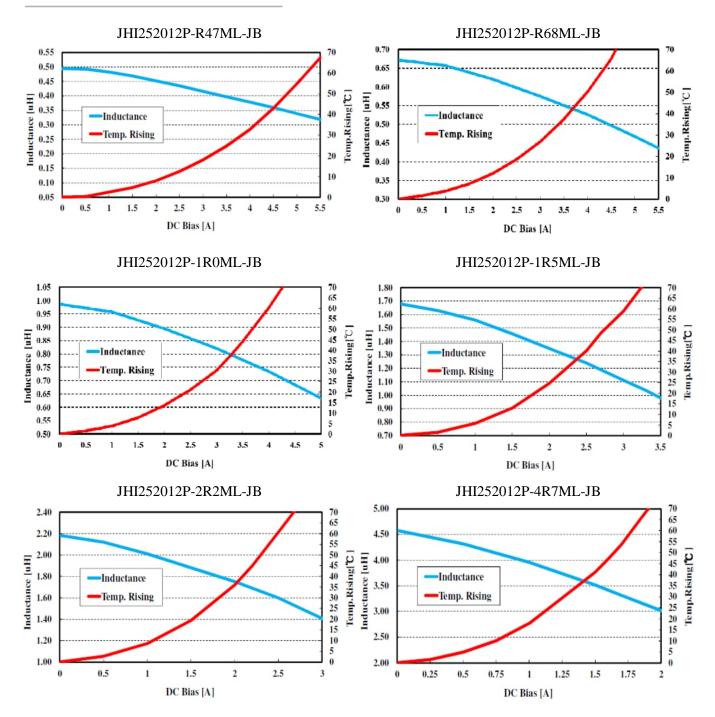
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Operating Temperature range : -40° C to $+125^{\circ}$ C torage Temperature range : -40° C to $+125^{\circ}$ C

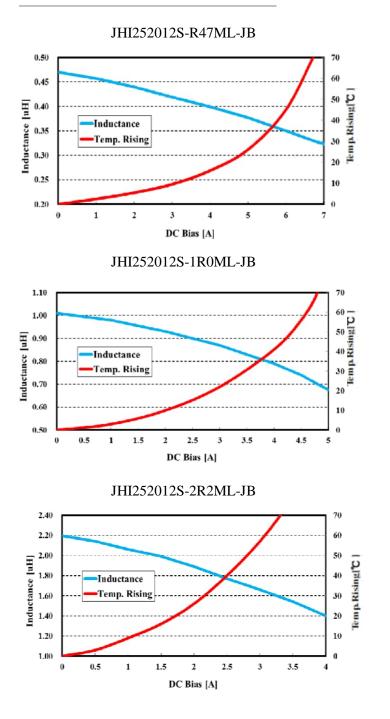






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Mulitilayer Power Inductors-JHI Series

Electrical Characteristics										
Part Number	Inductance	DC Resistance(m Ω)		Isat(A)		Irms(A)		SRF(MHz)	Q	
	(uH)	Typical	Max	Typical	Max	Typical	Max	Typical	Typical	
JHI252010C-R22ML-JB	0.22	9	12.5	7.90	7.20	5.90	5.30	170	35	
JHI252010C-R33ML-JB	0.33	21	26	6.60	6.00	4.40	4.00	154	35	
JHI252010C-R47ML-JB	0.47	27	32	5.00	4.50	3.90	3.51	138	35	
JHI252010C-R68ML-JB	0.68	37	44	4.30	3.87	3.40	3.06	120	35	
JHI252010C-1R0ML-JB	1.0	45	54	3.50	3.15	3.00	2.70	94	35	
JHI252010C-1R5ML-JB	1.5	76	91	2.60	2.34	2.50	2.25	68	35	
JHI252010C-2R2ML-JB	2.2	99	119	2.40	2.16	2.30	2.07	57	35	
JHI252010C-4R7ML-JB	4.7	220	262	1.80	1.62	1.36	1.22	42	35	
JHI252012C-R47ML-JB	0.47	21	25	5.30	4.95	4.60	4.18	129	39	
JHI252012C-R68ML-JB	0.68	29	36	5.00	4.63	3.70	3.60	104	39	
JHI252012C-1R0ML-JB	1.0	41	49	4.40	4.04	3.50	3.18	82	39	
JHI252012C-1R5ML-JB	1.5	64	77	3.20	2.91	2.50	2.27	71	39	
JHI252012C-2R2ML-JB	2.2	85	98	3.00	2.73	2.27	2.06	62	39	
JHI252012C-4R7ML-JB	4.7	196	235	1.90	1.58	1.61	1.40	37	39	

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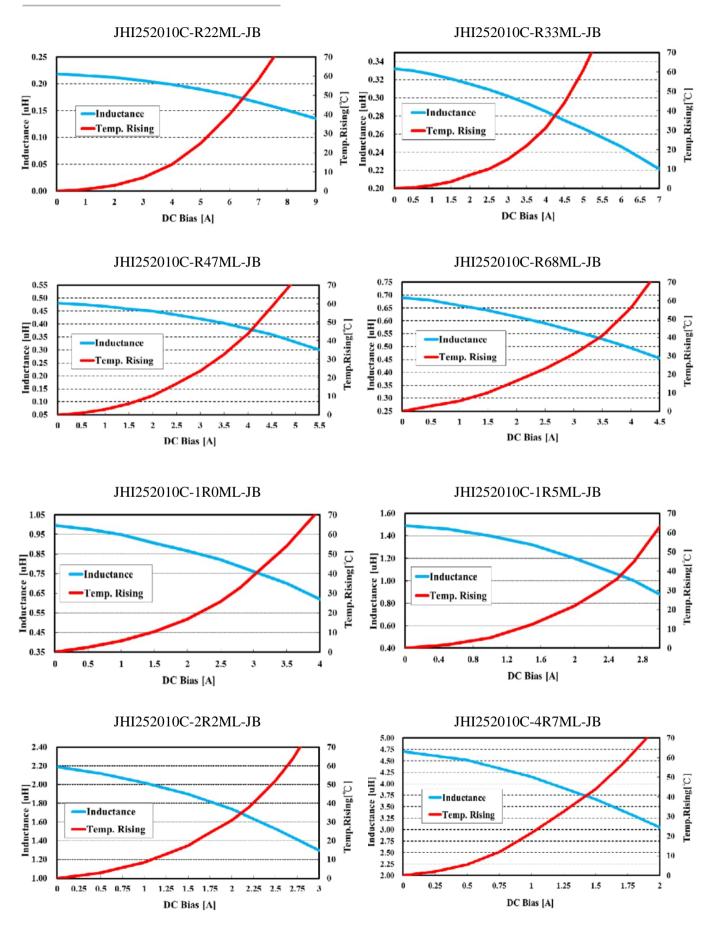
Operating Temperature range : -40°C to +125°C

Torage Temperature range : -40° C to $+125^{\circ}$ C

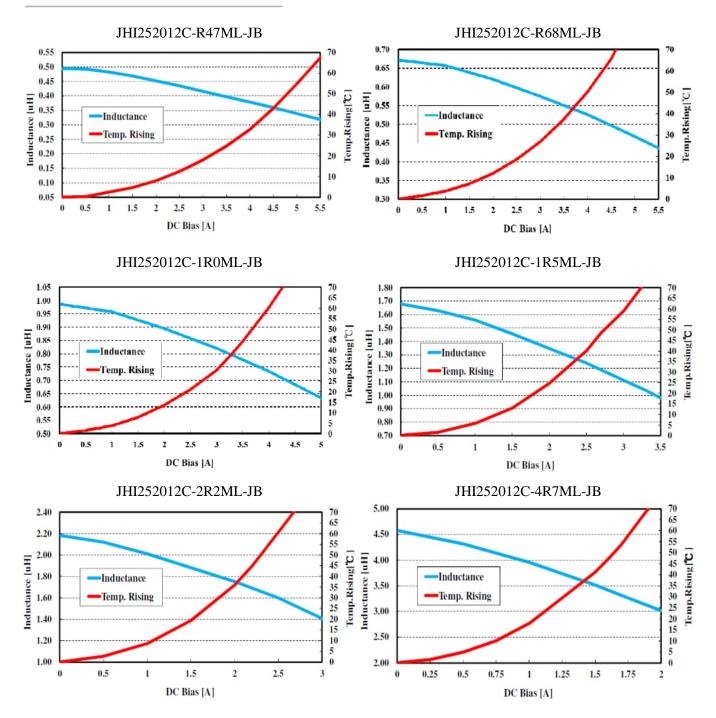




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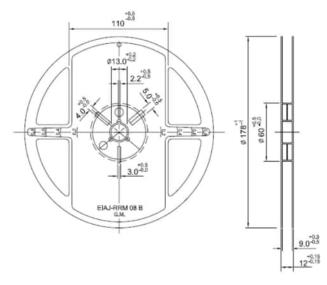




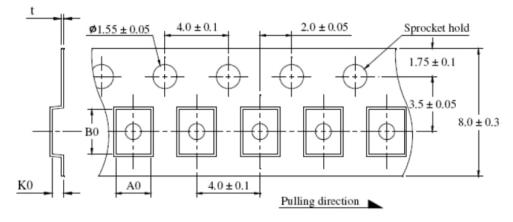


PACKAGING

REEL Dimensions (mm)



Tape Dimensions (mm)



TAPE DIMENSIONS AND PACKAGING QUANTITIES

TYPE	A0	B0	K0	t	Pcs/ Reel	Reels/Box
201610	1.80±0.1	2.20±0.1	1.15±0.1	0.22±0.05	3000	5 reels
252010	2.20±0.1	2.80±0.1	1.35±0.1	0.22±0.05	3000	5 reels
252012	2.20±0.1	3.00±0.1	1.55±0.1	0.25±0.05	3000	5 reels

Taping Package Storage ConditionStorage Temperature : 5 to 40 $^{\circ}$ CRelative Humidity: < 65% RH</td>Storage Time : 12 months max

