深圳市丰辉旺科技有限公司

DATA SHEET

Product Name **Mini Molding Power Inductors**

Part Name **PIM Series**

DESIGNED	CHECKED	APPROVED

深圳市丰辉旺科技有限公司

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1. Scope

Featurs

1.1 Metal material for large current and low loss.
1.2 High performance (Isat) realized by metal dust core.
1.3 Low loss realized with low Rdc.
1.4 Closed magnetic circuit design reduces leakage flux.
1.5 Vinyl thermal spray, better surface compactness.
1.6 100% lead (Pb) free meet RoHS standard.

Application

2.1 DC/DC converters.
2.2 Pad,Smartphone.
2.3 Portable gaming devices, Smart wear, Wi-Fi module.
2.4 Notebooks, VR, AR.
2.5 LCD displays, HDDs, DVCs, DSCs, etc.
2.6 Baseband power supply, Amplifier, Power management, Module power supply, Camera power management.

2. Ordering Procedure

PIM	①	2016 ②	10 ③	S ④	1R0 ⑤	M ⑥	B ⑦	C ⑧	* ⑨

①Series Name: Mini Molding Power Inductors

②External Dimensions(L×W):2016=2.0*1.6 mm

③External Dimensions(H):10=1.0 mm

④Size Tolerance:S=±0.2mm D=±0.1mm

⑤Inductance value:1R0=1.0uH

⑥Tolerance:K=±10% M=±20% N=±30%

⑦Coating color:B=Black G=Gray

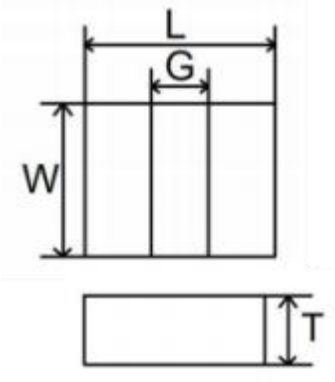
⑧Product type:C=Common

⑨Special define:A=Automotive B-Z=Special

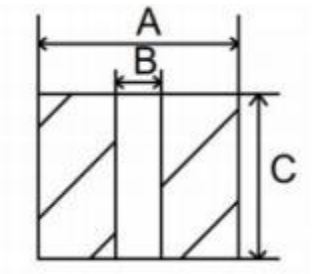
For special characteristics, please refer to the specific values in Item 5 "Specifications".

3. SHAPE AND DIMENSIONS

Outline Dimensions



Recommend Land Pattern Dimensions



Units:mm

Series	L	G	W	T	A	B	C
FHWPIM100765D	1.0±0.1	0.3±0.2	0.7±0.1	0.65Max.	[illegible]	0.20	0.70
FHWPIM121065S	1.2±0.2	0.4±0.2	1.0±0.2	0.65Max.	[illegible]	0.30	1.10
FHWPIM160865D	1.6±0.1	0.5±0.2	0.8±0.1	0.65Max.	[illegible]	0.40	0.90
FHWPIM160865S	1.6±0.2	0.5±0.2	0.8±0.2	0.65Max.	1.60	0.40	0.80
FHWPIM160808S	1.6±0.2	0.5±0.2	0.8±0.2	0.80Max.	1.70	0.40	0.90
FHWPIM141265S	1.4±0.2	0.5±0.2	1.2±0.2	0.65Max.	1.50	0.45	1.30
FHWPIM141208S	1.4±0.2	0.5±0.2	1.2±0.2	0.80Max.	1.50	0.45	1.30
FHWPIM201265S	2.0±0.2	0.5±0.2	1.2±0.2	0.65Max.	2.10	0.50	1.30
FHWPIM201208S	2.0±0.2	0.5±0.2	1.2±0.2	0.80Max.	2.10	0.50	1.30
FHWPIM201210S	2.0±0.2	0.5±0.2	1.2±0.2	1.00Max.	2.10	0.50	1.30
FHWPIM201608S	2.0±0.2	0.6±0.2	1.6±0.2	0.80Max.	2.10	0.50	1.70
FHWPIM201610S	2.0±0.2	0.6±0.2	1.6±0.2	1.00Max.	2.10	0.50	1.70
FHWPIM201610D	2.0±0.2	0.6±0.2	1.6±0.1	1.00Max.	2.00	0.50	1.60
FHWPIM201612S	2.0±0.2	0.6±0.2	1.6±0.2	1.20Max.	2.10	0.50	1.70
FHWPIM252008S	2.5±0.2	0.7±0.2	2.0±0.2	0.80Max.	2.60	0.70	2.10
FHWPIM252010S	2.5±0.2	0.7±0.2	2.0±0.2	1.00Max.	2.60	0.70	2.10
FHWPIM252012S	2.5±0.2	0.7±0.2	2.0±0.2	1.20Max.	2.60	0.70	2.10
FHWPIM322510S	3.2±0.2	0.9±0.2	2.5±0.2	1.00Max.	3.25	0.90	2.55
FHWPIM322512S	3.2±0.2	0.9±0.2	2.5±0.2	1.20Max.	3.25	0.90	2.55
FHWPIM322520S	3.2±0.2	0.9±0.2	2.5±0.2	2.00Max.	3.25	0.90	2.55
FHWPIM303012D	3.0±0.1	1.0±0.2	3.0±0.1	1.2Max.	2.90	0.90	2.90
FHWPIM303018D	3.0±0.1	1.0±0.2	3.0±0.1	1.8Max.	2.90	0.90	2.90
FHWPIM303020D	3.0±0.1	1.0±0.2	3.0±0.1	2.00Max.	2.90	0.90	2.90
FHWPIM404010S	4.1±0.2	1.2±0.2	4.1±0.2	1.00Max.	3.90	1.30	3.90
FHWPIM404012S	4.1±0.2	1.2±0.2	4.1±0.2	1.20Max.	3.90	1.30	3.90
FHWPIM404020S	4.1±0.2	1.2±0.2	4.1±0.2	2.00Max.	3.90	1.30	3.90

FHWPIM404030S	4.1±0.2	1.2±0.2	4.1±0.2	3.00Max.	3.90	1.30	3.90

4. Marking

No Marking

5. Specifications

1>1007 Series
HPIM100765(1.0*0.7*0.65mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM100765D1R5MBCA	1.5	400	500	0.4	0.3	1.1	0.9
FHWPIM100765D2R6MGCA	2.6	750	900	0.55	0.4	1.0	0.8

2>1210 Series
HPIM121065(1.2*1.0*0.65mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM121065S2R2MBCA	2.2	280	340	1.0	0.9	1.3	1.2

3>1608 Series
HPIM160865(1.6*0.8*0.65mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM160865DR22MGCA	0.22	35	43	3.8	3.5	4.7	4.3
FHWPIM160865SR47MGCA	0.47	66	82	2.3	2.0	3.3	3.0

FHWPIM160808(1.6*0.8*0.8mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM160808SR22MBCA	0.22	33	40	3.4	3.0	5.5	5.0
FHWPIM160808SR24MBCA	0.24	34	41	3.3	2.9	5.3	4.8
FHWPIM160808SR24MBCD	**0.24**	**22**	**26**	**3.9**	**3.5**	**4.9**	**4.4**
FHWPIM160808SR47MBCA	0.47	80	100	2.6	2.3	4.1	3.7
FHWPIM160808SR47MBCD	0.47	38	45	3.8	3.4	4.0	3.5
FHWPIM160808SR56MBCA	0.56	85	110	2.2	1.9	4.0	3.5
FHWPIM160808SR68MBCA	0.68	110	130	2.1	1.9	3.3	3.0
FHWPIM160808S1R0MBCA	1.0	180	200	2.1	1.8	3.0	2.6
FHWPIM160808S1R0MGCD	1.0	105	115	2.1	1.8	2.3	2.1
FHWPIM160808S2R2MGCA	2.2	220	260	1.4	1.2	1.5	1.3
FHWPIM160808S4R7MBCA	**4.7**	**585**	**700**	**1.0**	**0.8**	**1.2**	**1.0**

4>1412 Series

FHWPIM141265(1.4*1.2*0.65mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM141265SR33MBCA	0.33	26	32	4.4	4.2	4.4	4.0
FHWPIM141265SR33MGCA	0.33	26	32	4.4	4.2	4.4	4.0
FHWPIM141265SR47MBCA	0.47	37	45	3.0	2.7	3.4	3.0
FHWPIM141265SR47MGCA	0.47	37	45	3.0	2.7	3.4	3.0
FHWPIM141265SR47MGCB	0.47	35	38	2.9	2.6	3.9	3.6

FHWPIM141207(1.4*1.2*0.7mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM141207SR24MBCA	0.24	22	28	4.0	3.6	4.6	4.3
FHWPIM141207SR47MBCA	0.47	34	38	3.8	3.3	3.8	3.5

FHWPIM141208(1.4*1.2*0.8mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM141208SR24MBCA	0.24	22		4.1	3.7	6.0	5.7
FHWPIM141208SR24MBCD	0.24	21	24	6.6	6.0	7.2	6.5
FHWPIM141208SR33MBCA	0.33	23	28	4.0	3.5	5.3	5.0
FHWPIM141208SR33MGCA	0.33	23	28	4.0	3.5	5.3	5.0
FHWPIM141208SR47MBCA	0.47	29	35	3.8	3.3	4.6	4.2
FHWPIM141208SR47MGCA	0.47	29	35	3.8	3.3	4.6	4.2

5>2012 Series

FHWPIM201265(2.0*1.2*0.65mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM201265S1R0MBCA	1.0	78	86	2.6	2.3	2.8	2.5
FHWPIM201265D1R0MGCA	1.0	95	110	2.5	2.2	2.7	2.4
FHWPIM201265S2R2MBCA	2.2	215	230	1.7	1.4	1.8	1.5

FHWPIM201208(2.0*1.2*0.8mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM201208SR24MBCA	0.24	18	23	6.5	5.9	6.5	6.0
FHWPIM201208SR24MGCA	0.24	18	23	6.5	5.9	6.5	6.0

FHWPIM201208SR24MGCB	0.24	17	20	6.0	5.5	7.0	6.6
FHWPIM201208SR33MBCA	0.33	33	45	4.3	4.0	5.2	4.8
FHWPIM201208SR47MBCA	0.47	34	50	3.5	3.3	5.0	4.6
FHWPIM201208SR47MGCA	0.47	34	50	3.5	3.3	5.0	4.6
FHWPIM201208SR47MBCD	0.47	24	28	4.7	4.5	5.2	4.8
FHWPIM201208DR47MGCA	0.47	34	42	4.3	3.9	5.2	4.8
FHWPIM201208SR68MBCA	0.68	50	60	3.7	3.3	4.2	3.7
FHWPIM201208S1R0MBCA	1.0	55	70	3.3	2.9	4.0	3.5
FHWPIM201208S1R0MBCD	1.0	48	55	3.2	2.8	3.2	2.8
FHWPIM201208S1R0MGCD	1.0	48	55	3.2	2.8	3.2	2.8
FHWPIM201208S1R5MBCA	1.5	118	135	2.2	1.9	3.0	2.5
FHWPIM201208S2R2MBCA	2.2	160	185	2.2	1.8	2.6	2.3
FHWPIM201208S3R3MBCA	3.3	253	300	1.8	1.5	1.9	1.6
FHWPIM201208S4R7MBCA	4.7	285	325	1.7	1.5	1.6	1.4

FHWPIM201210(2.0*1.2*1.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM201210SR10MBCA	0.1	8.0	12	7.5	7.0	8.5	8.0
FHWPIM201210SR22MBCA	0.22	16	22	7.1	6.5	7.3	6.8
FHWPIM201210SR24MBCA	0.24	17	23	7.0	6.4	7.2	6.7
FHWPIM201210SR24MGCD	0.24	13	17	7.0	6.4	7.2	6.7
FHWPIM201210SR33MBCA	0.33	24	32	5.5	5.0	6.5	6.0
FHWPIM201210SR33MGCB	0.33	18	22	5.7	5.2	6.7	6.3
FHWPIM201210SR47MBCA	0.47	29	36	4.7	4.3	5.5	5.0
FHWPIM201210SR47MGCB	0.47	22	26	5.0	4.5	6.0	5.5
FHWPIM201210SR68MBCA	0.68	37	43	4.3	4.0	5.0	4.5
FHWPIM201210S1R0MBCA	1.0	55	63	3.9	3.5	4.0	3.5
FHWPIM201210S1R5MBCA	1.5	76	85	3.1	2.6	3.2	2.7
FHWPIM201210S2R2MBCA	2.2	135	150	2.0	1.7	2.7	2.4
FHWPIM201210S6R8MBCA	6.8	440	520	1.5	1.3	1.45	1.2
FHWPIM201210S100MBCA	10.0	600	660	1.1	1.0	1.2	1.0

6>2016 Series
FHWPIM201608(2.0*1.6*0.8mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max

FHWPIM201608SR22MBCA	0.22	14	19	6.6	5.9	6.1	5.6
FHWPIM201608SR24MBCA	0.24	14	20	6.5	5.8	6.0	5.5
FHWPIM201608SR33MBCA	0.33	18	24	5.5	4.8	5.8	5.3
FHWPIM201608SR47MBCA	0.47	24	27	4.6	4.4	5.5	5.0
FHWPIM201608SR47MGCA	0.47	24	27	4.6	4.4	5.5	5.0
FHWPIM201608SR68MBCA	0.68	39	44	3.8	3.5	4.6	4.2
FHWPIM201608S1R0MBCA	1.0	53	60	3.6	3.3	3.3	3.1
FHWPIM201608S1R0MGCD	1.0	45	52	3.6	3.3	3.8	3.5
FHWPIM201608S1R5MBCA	1.5	73	85	3.1	2.8	3.0	2.8
FHWPIM201608S2R2MBCA	2.2	123	140	2.2	2.0	2.5	2.3
FHWPIM201608S3R3MBCA	3.3	200	220	1.8	1.6	2.1	1.8
FHWPIM201608S4R7MBCA	4.7	260	290	1.6	1.4	1.7	1.5
FHWPIM201608S100MBCA	10.0	690	800	1.0	0.9	1.0	0.9

FHWPIM201610(2.0*1.6*1.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM201610SR10MBCA	0.1	7.0	11	8.5	8.0	9.0	8.4
FHWPIM201610SR15MBCA	0.15	8.0	14	7.6	7.0	8.7	8.0
FHWPIM201610SR22MBCAF	0.22	11	18	6.9	6.3	8.2	7.5
FHWPIM201610SR24MBCA	0.24	12	19	6.8	6.2	8.0	7.4
FHWPIM201610SR33MBCA	0.33	17	22	5.7	5.3	7.0	6.5
FHWPIM201610SR33MGCA	0.33	17	22	5.7	5.3	7.0	6.5
FHWPIM201610SR47MBCA	0.47	22	25	5.5	5.0	6.3	5.5
FHWPIM201610SR47MGCA	0.47	22	25	5.5	5.0	6.3	5.5
FHWPIM201610SR68MBCA	0.68	25	32	4.6	4.3	5.2	4.7
FHWPIM201610S1R0MBCA	1.0	35	43	4.5	4.1	4.6	4.2
FHWPIM201610S1R0MGCA	1.0	35	43	4.5	4.1	4.6	4.2
FHWPIM201610S1R0MBCD	1.0	31	36	4.6	4.2	4.7	4.2
FHWPIM201610S1R0MGCD	1.0	31	36	4.6	4.2	4.7	4.2
FHWPIM201610S1R5MBCA	1.5	80	100	2.6	2.3	3.2	2.9
FHWPIM201610S2R2MBCA	2.2	120	130	2.5	2.1	3.0	2.8
FHWPIM201610S2R2MGCA	2.2	120	130	2.5	2.1	3.0	2.8
FHWPIM201610D2R2MBCA	2.2	115	125	2.5	2.2	3.3	3.0
FHWPIM201610S3R3MBCA	3.3	140	170	1.7	1.5	2.3	2.0
FHWPIM201610S4R7MBCA	4.7	190	220	1.6	1.4	2.0	1.8
FHWPIM201610S4R7MGCA	4.7	190	220	1.6	1.4	2.0	1.8

FHWPIM201610S100MBCA	10.0	483	580	1.0	0.7	1.4	1.1

HPIM201612(2.0*1.6*1.2mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM201612SR10MBCA	0.1	4.0	6.0	12	10	13	11.5
FHWPIM201612SR15MBCA	0.15	7.5	10	10	9.0	12	10.5
FHWPIM201612SR24MBCA	0.24	9.0	11	9.1	8.6	9.2	8.7
FHWPIM201612SR33MBCA	0.33	10	15	7.7	7.2	7.8	7.3
FHWPIM201612SR47MBCA	0.47	13	17	6.7	6.0	6.7	6.0
FHWPIM201612SR68MBCA	0.68	19	23	6.0	5.3	6.0	5.3
FHWPIM201612S1R0MBCA	1.0	30	36	5.0	4.5	5.0	4.5
FHWPIM201612S1R5MBCA	1.5	40	50	4.0	3.5	4.0	3.5
FHWPIM201612S2R2MBCA	2.2	77	90	3.3	2.9	3.1	2.7
FHWPIM201612S3R3MBCA	3.3	135	165	2.4	2.0	2.7	2.3

7>2520 Series

FHWPIM252075S(2.5*2.0*0.75mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM252075S2R2MGCA	2.2	78	90	2.3	2.0	2.6	2.4
FHWPIM252075S100MGCA	10.0	487	530	1.1	0.9	1.1	0.9

FHWPIM252008S(2.5*2.0*0.8mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM252008SR47MBCA	0.47	22	27	6.5	6.0	6.0	5.3
FHWPIM252008S1R0MBCA	1.0	34	40	4.3	4.0	4.5	4.0
FHWPIM252008S1R5MBCA	1.5	64	75	3.4	3.0	3.5	3.0
FHWPIM252008S2R2MBCA	2.2	69	77	3.0	2.6	3.0	2.6
FHWPIM252008S3R3MBCA	3.3	150	180	2.5	2.1	2.5	2.1
FHWPIM252008S100MBCA	**10**	**500**	**600**	**1.4**	**1.2**	**1.1**	**0.9**

FHWPIM252010S(2.5*2.0*1.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM252010SR22MBCA	0.22	12	17	6.8	6.5	8.6	7.9
FHWPIM252010SR22MGCA	0.22	12	17	6.8	6.5	8.6	7.9

FHWPIM252010SR24MBCA	0.24	12	17.5	6.7	6.4	8.5	7.8
FHWPIM252010SR33MBCA	0.33	13	19	6.5	6.2	7.6	7.2
FHWPIM252010SR33MGCA	0.33	13	19	6.5	6.2	7.6	7.2
FHWPIM252010SR47MBCA	0.47	15	22	6.1	5.6	6.9	6.5
FHWPIM252010SR47MGCA	0.47	15	22	6.1	5.6	6.9	6.5
FHWPIM252010SR47MBCD	0.47	13	15	6.5	6.0	6.6	6.0
FHWPIM252010SR68MBCA	0.68	23	27	5.6	5.0	5.9	5.5
FHWPIM252010S1R0MBCA	1.0	25	30	4.5	4.1	5.3	4.8
FHWPIM252010S1R0MGCA	1.0	25	30	4.5	4.1	5.3	4.8
FHWPIM252010S1R5MBCA	1.5	45	55	3.4	3.0	4.3	3.9
FHWPIM252010S1R5MGCA	1.5	45	55	3.4	3.0	4.3	3.9
FHWPIM252010S2R2MBCA	2.2	62	70	2.4	2.1	3.3	3.0
FHWPIM252010S2R2MGCA	2.2	62	70	2.4	2.1	3.3	3.0
FHW**PIM252010S2R2MBCD**	**2.2**	**62**	**70**	**4.0**	**3.2**	**3.4**	**3.1**
FHWPIM252010S3R3MBCA	3.3	86	100	2.5	2.1	2.8	2.5
FHWPIM252010S3R3MGCA	3.3	86	100	2.5	2.1	2.8	2.5
FHWPIM252010S4R7MBCA	4.7	160	180	2.0	1.6	2.6	2.0
FHWPIM252010S4R7MGCA	4.7	160	180	2.0	1.6	2.6	2.0
FHWPIM252010S4R7MBCD	4.7	145	160	2.0	1.6	2.6	2.0
FHWPIM252010S6R8MBCA	6.8	270	320	1.6	1.4	2.4	1.9
FHWPIM252010S100MBCA	10.0	500	560	1.05	0.95	1.55	1.4
FHWPIM252010S100MGCA	10.0	500	560	1.05	0.95	1.55	1.4
FHWPIM252010S220MGCA	22.0	1100	1300	0.85	0.6	1.1	0.9

FHWPIM252012S(2.5*2.0*1.2mm)

P/N	L(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM252012SR10MBCA	0.1	6	10	12	10.5	13.5	12.5
FHWPIM252012SR15MBCA	0.15	7	11	11.5	10	13.0	12.0
FHWPIM252012SR22MBCA	0.22	9	14	8.2	7.6	9.6	9.0
FHWPIM252012SR24MBCA	0.24	10	15	8.0	7.5	9.3	8.8
FHWPIM252012SR24MGCA	0.24	10	15	8.0	7.5	9.3	8.8
FHWPIM252012SR33MBCA	0.33	11	17	6.8	6.4	8.3	7.8
FHWPIM252012SR47MBCA	0.47	13	19	6.5	6.0	7.5	7.0
FHWPIM252012SR47MBCD	0.47	11	13	8.0	7.5	8.5	8.0
FHWPIM252012SR47MGCD	0.47	11	13	8.0	7.5	8.5	8.0
FHWPIM252012SR68MBCA	0.68	17	23	6.3	5.5	6.5	6.0

FHWPIM252012SR68MBCD	0.68	15	18	7.5	7.0	6.7	6.0
FHWPIM252012SR82MBCA	0.82	19	24	5.8	5.3	6.5	5.8
FHWPIM252012S1R0MBCA	1.0	35	42	4.0	3.6	5.6	5.0
FHWPIM252012S1R0MBCD	1.0	16	22	5.2	4.5	6.5	6.0
FHWPIM252012S1R0MGCD	1.0	16	22	5.2	4.5	6.5	6.0
FHWPIM252012S1R5MBCA	1.5	44	50	3.7	3.2	4.5	4.1
FHWPIM252012S1R5MBCD	1.5	27	32	4.6	4.2	4.7	4.4
FHWPIM252012S1R5MGCA	1.5	44	50	3.7	3.2	4.5	4.1
FHWPIM252012S2R2MBCA	2.2	55	65	3.0	2.7	3.8	3.3
FHWPIM252012S2R2MGCA	2.2	55	65	3.0	2.7	3.8	3.3
FHWPIM252012S3R3MBCA	3.3	80	97	2.3	1.8	3.0	2.7
FHWPIM252012S4R7MBCA	4.7	150	170	1.8	1.5	2.4	2.1
FHWPIM252012S4R7MGCA	4.7	150	170	1.8	1.5	2.4	2.1
FHWPIM252012S6R8MBCA	6.8	245	270	1.6	1.4	2.0	1.7
FHWPIM252012S100MBCA	10.0	330	400	1.2	1.05	1.6	1.45
FHWPIM252012S100MGCA	10.0	330	400	1.2	1.05	1.6	1.45

8>3225 Series

FHWPIM322510S(3.2*2.5*1.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM322510SR33MBCA	0.33	11	15	8.3	7.8	8.3	7.8
FHWPIM322510SR47MBCA	0.47	17	22	6.4	5.9	8.3	7.6
FHWPIM322510SR68MBCA	0.68	22	28	6.2	5.7	7.5	7.0
FHWPIM322510S1R0MBCA	1.0	25	30	5.4	4.9	6.0	5.3
FHWPIM322510S1R5MBCA	1.5	34	42	4.0	3.6	5.0	4.4
FHWPIM322510S2R2MBCA	2.2	55	66	3.7	3.4	4.0	3.5
FHWPIM322510S3R3MBCA	3.3	105	120	2.7	2.3	3.7	3.3
FHWPIM322510S4R7MBCA	4.7	125	140	2.3	1.9	2.8	2.5
FHWPIM322510S6R8MBCA	6.8	290	320	1.9	1.6	2.4	2.0
FHWPIM322510S100MBCA	10.0	325	365	2.2	1.8	2.2	1.8

FHWPIM322512S(3.2*2.5*1.2mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM322512SR10MBCA	0.10	5.2	7.0	12.0	11.0	18.0	16.5
FHWPIM322512SR22MBCA	0.22	6.6	10	9.2	8.7	11.5	11.0

FHWPIM322512SR22MGCA	0.22	6.6	10	9..2	8.7	11.5	11.0
FHWPIM322512SR24MBCA	0.24	7.0	12	9.0	8.5	11	10.5
FHWPIM322512SR33MBCA	0.33	9.0	14	8.4	8.1	10	9.5
FHWPIM322512SR47MBCA	0.47	14	19	7.5	7.2	8.6	8.2
FHWPIM322512SR47MGCA	0.47	14	19	7.5	7.2	8.6	8.2
FHWPIM322512SR47MBCD	0.47	11	14	7.5	7.2	8.6	8.2
FHWPIM322512SR68MBCA	0.68	18	23	7.3	6.8	8.1	7.7
FHWPIM322512SR68MBCD	0.68	12	15	7.0	6.5	8.0	7.5
FHWPIM322512S1R0MBCA	1.0	26	30	5.3	4.8	6.6	5.8
FHWPIM322512S1R0MGCA	1.0	26	30	5.3	4.8	6.6	5.8
FHWPIM322512S1R0MBCD	1.0	18	21	5.5	5.[illegible]	7.7	7.0
FHWPIM322512S1R5MBCA	1.5	37	44	4.7	4.3	5.1	4.7
FHWPIM322512S2R2MBCA	2.2	58	70	3.6	3.0	4.6	4.2
FHWPIM322512S2R2MBCD	2.2	42	50	3.8	3.5	5.0	4.5
FHWPIM322512S2R2MGCD	2.2	42	50	3.8	3.5	5.0	4.5
FHWPIM322512S3R3MBCA	3.3	75	95	2.9	2.5	3.7	3.2
FHWPIM322512S3R3MGCA	3.3	75	95	2.9	2.5	3.7	3.2
FHWPIM322512S4R7MBCA	4.7	115	135	2.3	2.0	2.9	2.6
FHWPIM322512S6R8MBCA	6.8	177	210	2.1	1.9	2.8	2.4
FHWPIM322512S100MBCA	10.0	210	230	2.2	1.8	2.3	1.9

FHWPIM322520S(3.2*2.5*2.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHW**PIM322520SR33MBCA**	**0.33**	**7.5**	**9**	**9.5**	**9**	**15.5**	**14**
FHWPIM322520SR47MBCA	0.47	9	10.5	9.5	8.5	15	13
FHWPIM322520SR68MBCA	0.68	12.5	14.5	9.0	8.0	13	11
FHWPIM322520S1R0MBCA	1.0	15	17.5	8.2	7.5	9.0	8.3
FHW**PIM322520S2R2MBCA**	**2.2**	**36**	**43**	**5.4**	**4.8**	**6.5**	**5.5**
FHW**PIM322520S3R3MBCA**	**3.3**	**55**	**60**	**4.5**	**4.0**	**4.5**	**3.5**
FHW**PIM322520S4R7MBCA**	**4.7**	**81**	**94**	**3.5**	**3.0**	**4.0**	**3.0**

9>3030 Series

FHWPIM303012(3.0*3.0*1.2mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM303012D100MBCA	10.0	192	220	2.3	1.9	2.3	2.0

FHWPIM303015(3.0*3.0*1.5mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM303015D220MBCA	22.0	580	700	1.2	1.0	1.6	1.2

PIM303018(3.0*3.0*1.8mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM303018DR22MBCA	0.22	5.5	7.0	10.0	9.0	17	16
FHWPIM303018D1R5MBCA	1.5	20	26	6.8	6.4	8	7.0
FHWPIM303018D4R7MBCA	4.7	72	87	3.4	3.0	4.7	4.2

HPIM303020(3.0*3.0*2.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM303020DR33MBCA	**0.33**	**7.5**	**9**	**10.0**	**9.0**	**17**	**15**
FHWPIM303020DR50MBCA	0.5	9.0	12	9.0	8.0	15	13
FHWPIM303020DR68MBCA	0.68	13	16	8.5	7.8	13	11
FHWPIM303020D1R0MBCA	1.0	14	19	6.5	6.0	8.0	7.3
FHWPIM303020D1R5MBCA	1.5	19	25	6.3	5.8	7.0	6.5
FHWPIM303020D2R2MBCA	2.2	37	45	4.7	4.3	6.0	5.5
FHWPIM303020D3R3MBCA	3.3	52	63	4.5	4.0	5.9	5.4
FHWPIM303020D4R7MBCA	4.7	60	73	4.2	3.8	4.8	4.0
FHWPIM303020D6R8MBCA	6.8	107	135	3.2	3.0	4.5	3.8
FHWPIM303020D100MBCA	10.0	135	160	2.5	2.2	3.8	3.3

10>4040 Series
FHWPIM404010*4.0*4.0*1.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWHPIM404010S100MBCA	10	220	280	2.5	2.0	2.2	2.0

FHWPIM404012(4.0*4.0*1.2mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM404012S1R0MBCA	1.0	21	25	6.3	5.5	11	10
FHW**PIM404012S1R5MBCA**	**1.5**	**29**	**34.5**	**6.0**	**5.0**	**8.0**	**7.0**

FHWPIM404020(4.0*4.0*2.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHWPIM404020S2R2MGCA	2.2	30	36	6.5	6.0	9.5	8.5
FHW**PIM404020S4R7MGCA**	**4.7**	**47**	**58**	**5.0**	**4.0**	**6.3**	**5.5**
FHW**PIM404020S100GCA**	**10**	**113**	**135**	**3.7**	**3.0**	**4.9**	**4.0**
FHW**PIM404020S150MGCA**	**15**	**210**	**250**	**2.3**	**1.7**	**3.5**	**3.0**
FHW**PIM404020S220MGCA**	**22**	**275**	**330**	**1.8**	**1.3**	**2.9**	**2.3**

FHWPIM404030(4.0*4.0*3.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FHW**PIM404030SR68MBCA**	**0.68**	**8.3**	**10**	**9.5**	**8.0**	**17**	**15**
FHWPIM404030S1R5MGCA	1.5	15	18	[illegible]	6.0	12.5	11
FHWPIM404030S4R7MGCA	4.7	41	46	4.3	4.0	7.0	6.0
FHW**PIM404030S6R8MBCA**	**6.8**	**51**	**62**	**4.2**	**3.8**	**6.3**	**5.1**

Test remarks

Note 1.: All test data is referenced to 25 ℃ ambient.

Note 2.: Test Condition:1MHz, 1.0Vrms.

Note 3.: Irms:DC current (A) that will cause an approximate ΔT of 40 ℃.

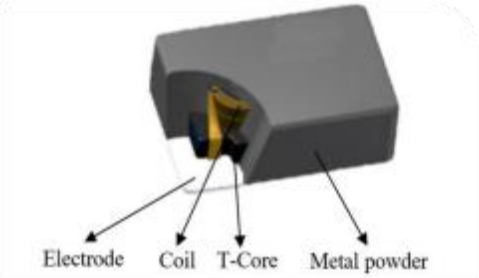
Note 4.: Isat:DC current (A) that will cause L0 to drop approximately 30%.

Note 5.: Operating Temperature Range -55℃ to + 125℃.

Note 6.: The part temperature (ambient + temp rise) should not exceed 125 under ℃ the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

Note 7.: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

6. Structure

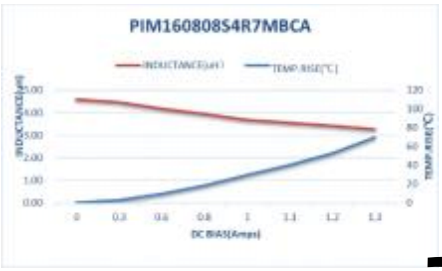


7. Current Characteristic

1>1007 Series

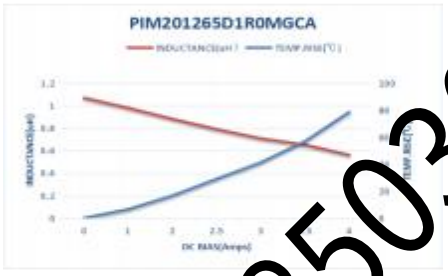
2>1210 Series

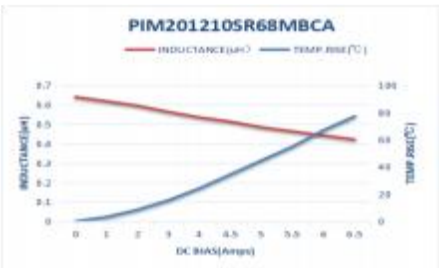
3>1608 Series

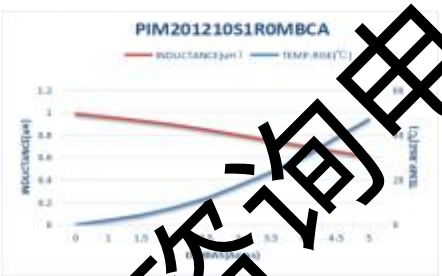


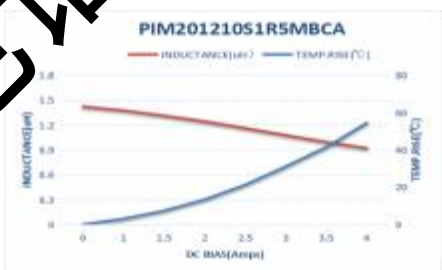
4>1412 Series

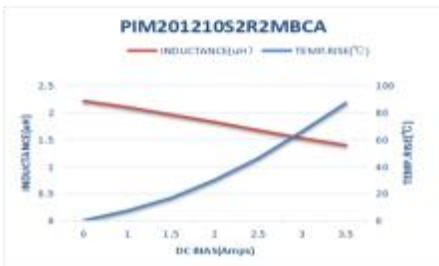
5>2012 Series











6>2016 Series

PIM201608SR22MBCA

PIM201608SR24MBCA

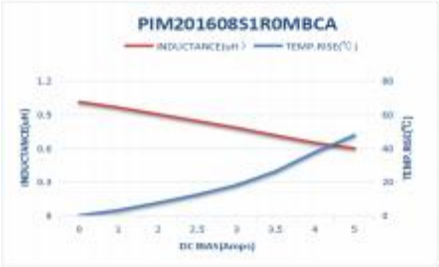
PIM201608SR33MBCA

PIM201608SR47MBCA

PIM201608SR47MGCA

PIM201608SR68MBCA

PIM201608S1R0MBCA



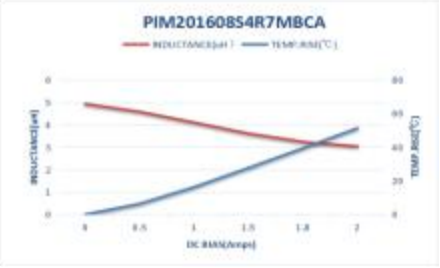
PIM201608S1R0MGCD

PIM201608S1R5MBCA

PIM201608S2R2MBCA

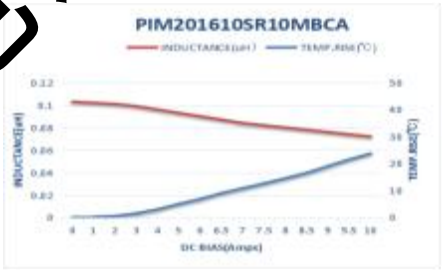
PIM201608S3R3MBCA

PIM20160BS4R7MBCA

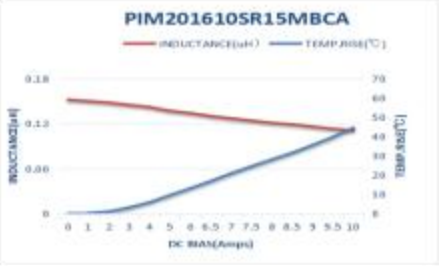


PIM201608S100MBCA

PIM201610SR10MBCA



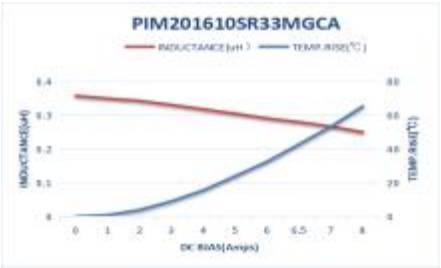
PIM201610SR15MBCA

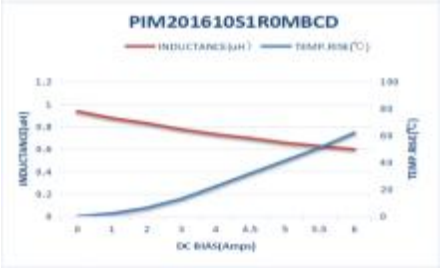


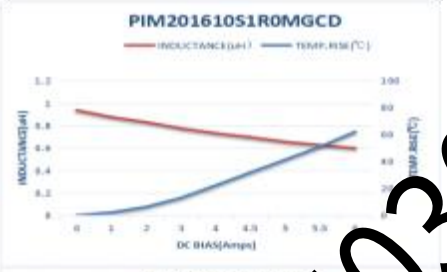
PIM201610SR22MBCA

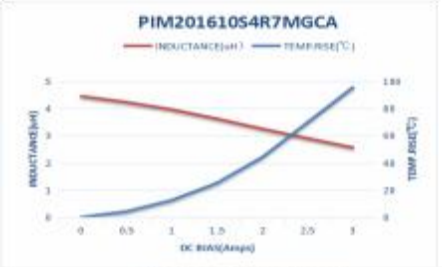
PIM201610SR24MBCA

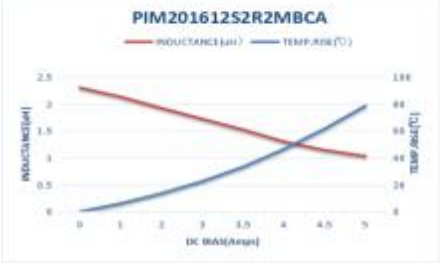
PIM201610SR33MBCA



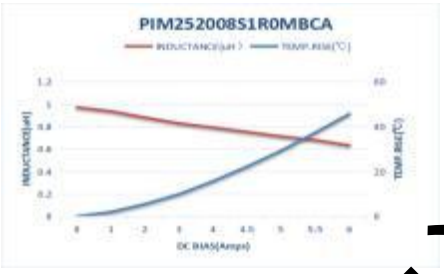


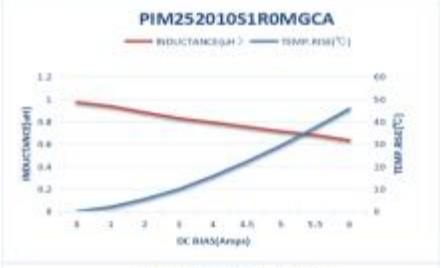


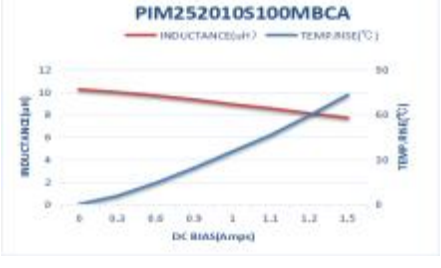


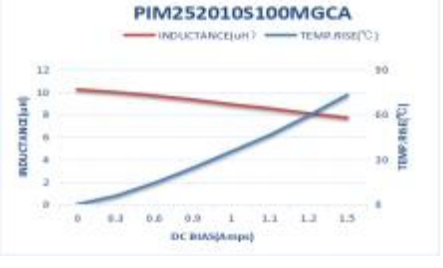


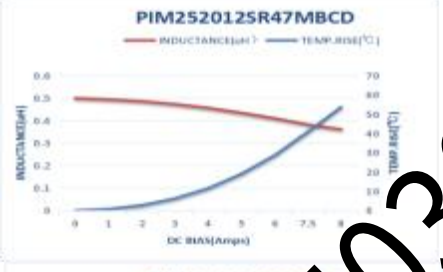
7>2520 Series

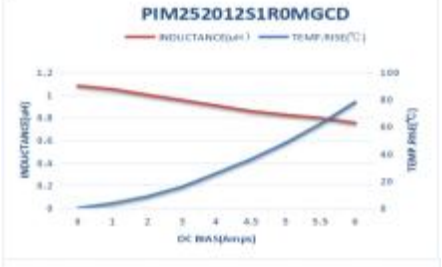


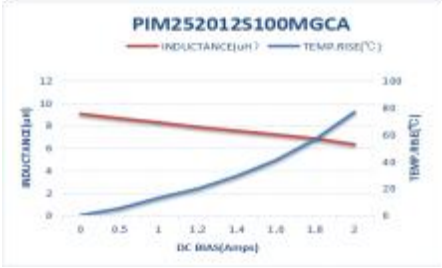




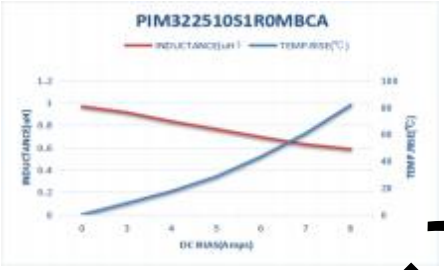


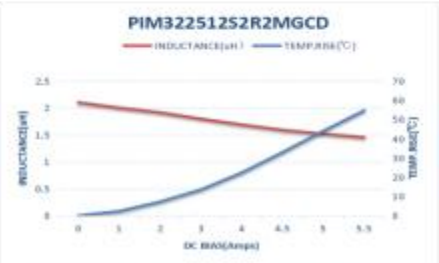


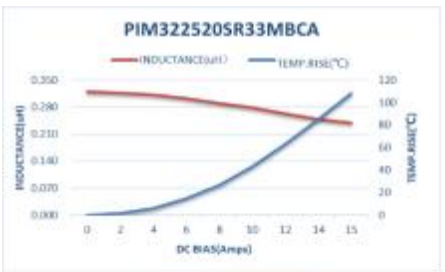


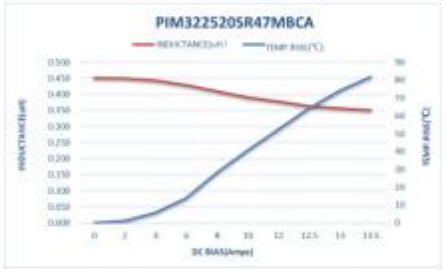


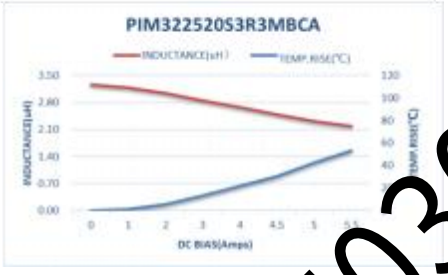
8>3225 Series





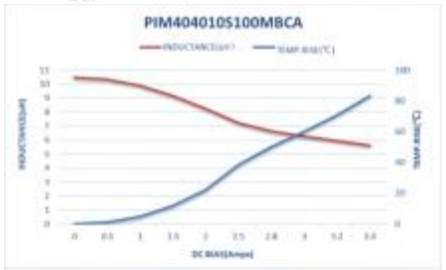


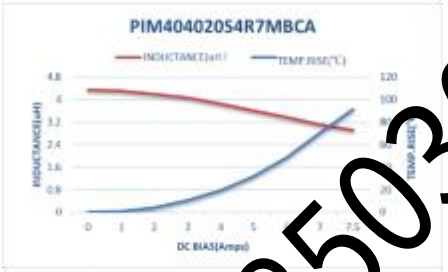


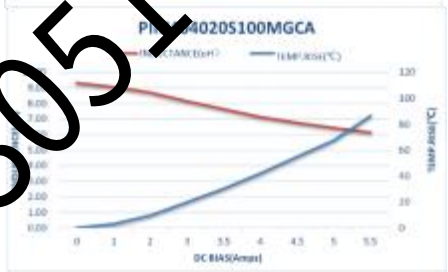


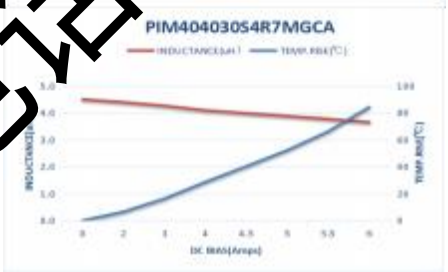
9›3030 Series

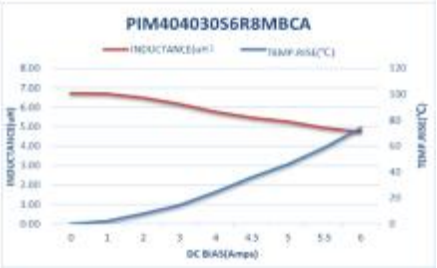
10>4040 Series











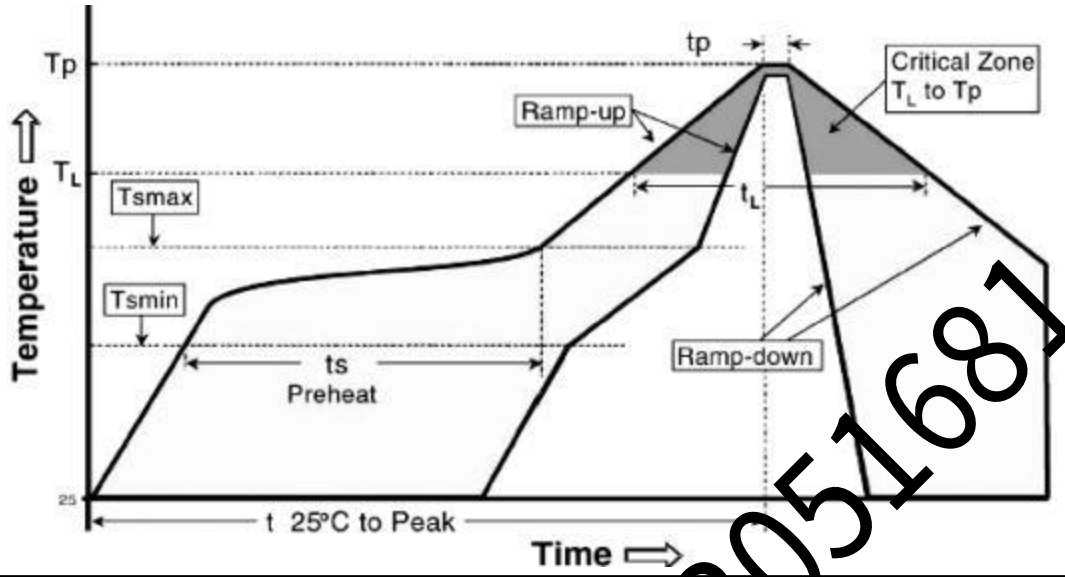
8. Reliability

Item	Requirements	Test Methods and Remarks
Insulation Resistance	≥100MΩ	100 VDC between inductor coil and The middle of the top surface of the body for 60 seconds.
Solderability	90% or more of electrode area shall be coated by new solde.	Dip pads in flux . Solder Composition: Sn/Ag3.0/Cu0.5(Pb-Free). Solder Temperature: 245±5℃. Immersion Time: (5±1) s.
Resistance to Soldering Heat	No visible mechanical damage. Inductance change: Within ±10%.	Dip pads in flux. Solder Composition: Sn/Ag3.0/Cu0.5(Pb-Free). Solder Temperature: 260±5℃. Immersion Time: 10±1sec.
Adhesion of teral electrode	Strong bond between the pad and the core, without come off PCB.	Inductors shall be subjected to (260±5)℃ for (20±5)s Soldering in the base whit 63mm solder. And then aplombelectrode way plus tax 10 N for (10±1) seconds.
High temperature	No case deformation or change in appearance. Inductance change: Within ±10%	Temperature: 125±2℃. Time : 1000 hours. Measurement at 24±4 hours after test conclusion.
Low temperature	No visible mechanical damage. Inductance change: Within ±10%	Temperature: -40±2℃. Time : 1000 hours. Measurement at 24±4 hours after test conclusion.
Thermal shock	No visible mechanical damage. Inductance change: Within ±10%	The test sample shall be placed at (-55±3)℃ and (125±3)℃ for (30±3) , different temperature conversion time is 2~3 utes. The temperature cycle shall be repeated 32 cycles. Placed at room temperature for 2 hours, within 48±4 hours of testing.
Temperature characteristic	Inductance change Pc-b,Pc-d: Within ±10%	a：+20 ℃ （30~45） → b: -40 ℃ （30~45） → c: +20 ℃ （30~45） → d: +125 ℃ （30~45） → e: +20 ℃ （30~45） $P_{c\text{-}b}=\frac{L_b-L_c}{L_c}\times100\%$; $P_{c\text{-}d}=\frac{L_d-L_c}{L_c}\times100\%$
Static Humidity	No visible mechanical damage. Inductance change: Within ±10%	Inductors shall be subjected to (95±3)%RH . at(60±2)℃ for (1000±4) h. Placed at room temperature for 2 hours, within 48 hours of testing.
Life	No visible mechanical damage. Inductance change: Within ±10%	Inductors shall be store at (85±2)℃ for (1000±4) hours with Irms applied. Placed at room temperature for 2 hours, within 48 hours of testing

9. Soldering Condition

(This is for recommendation, please customer perform adjustment according to actual application)

Recommend Reflow Soldering Profile：(solder：Sn96.5 / Ag3 / Cu0.5)



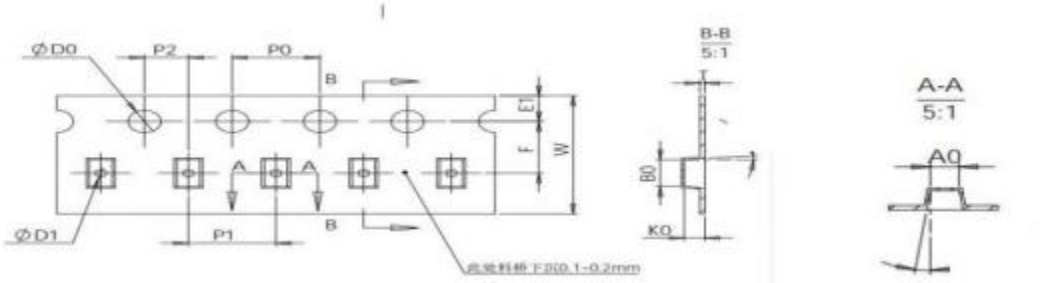
Profile Feature	Lead (Pb)-Free Solder
Preheat：	
Temperature Min (Ts_{min})	150℃
Temperature Max (Ts_{max})	200℃
Time (Ts_{min} to Ts_{max}) (ts)	60 - 120 seconds
Average ramp-up rate：	
(Ts max to Tp)	3℃ / second max.
Time maintained above：	
Temperature (T_L)	217℃
Time (t_L)	60-150 seconds
Peak Temperature (Tp)	260℃
Time within $^{+0}_{-5}$℃ of actual Peak Temperature (tp)[2]	10 seconds
Ramp-down Rate	6℃/second max.
Time 25℃ to Peak Temperature	8minutes max.

Allowed Re-flow times：2 times

Remark：To avoid discoloration phenomena of chip on terminal electrodes, please use N_2 Re-flow furnace .

10. Packing

10.1 Dimension of plastic taping: (Unit: mm)

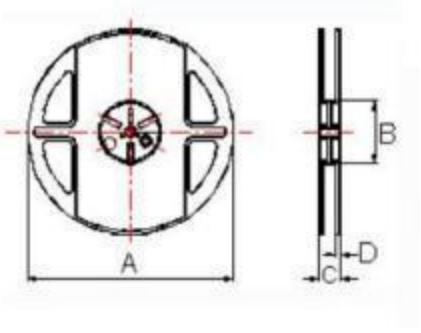


Series	W ±0.30	A0 ±0.05	B0 ±0.05	D +0.1/-0	D1 Min	E ±0.10	F ±0.10	K0 ±0.05	P0 ±0.10	P2 ±0.10	T ±0.05	Qty/Reel
100765	8.00	0.90	1.25	1.50	0.6	1.75	3.50	0.80	4.00	2.00	0.23	5K
121065	8.00	1.30	1.55	1.50	0.6	1.75	3.50	0.80	4.00	2.00	4.00	0.23	3K
160865	8.00	1.10	1.95	1.50	0.6	1.75	3.50	0.80	4.00	2.00	4.00	0.23	
160808	8.00	1.10	1.95	1.50	0.6	1.75	3.50	1.00	4.00	2.00	4.00	0.23	
141265	8.00	1.50	1.75	1.50	1.0	1.75	3.50	0.80	4.00	2.00	4.00	0.23	
141208	8.00	1.50	1.75	1.50	1.0	1.75	3.50	1.00	4.00	2.00	4.00	0.23	
201265	8.00	1.50	2.35	1.50	1.0	1.75	3.50	0.80	4.00	2.00	4.00	0.23	
201208	8.00	1.50	2.35	1.50	1.0	1.75	3.50	1.00	4.00	2.00	4.00	0.23	
201210	8.00	1.50	2.35	1.50	1.0	1.75	3.50	1.20	4.00	2.00	4.00	0.23	
201608	8.00	1.90	2.35	1.50	1.0	1.75	3.50	1.00	4.00	2.00	4.00	0.23	
201610	8.00	1.90	2.35	1.50	1.0	1.75	3.50	1.20	4.00	2.00	4.00	0.23	
201612	8.00	1.90	2.35	1.50	1.0	1.75	3.50	1.40	4.00	2.00	4.00	0.23	
252008	8.00	2.40	2.85	1.50	1.0	1.75	3.50	1.00	4.00	2.00	4.00	0.23	
252010	8.00	2.40	2.85	1.50	1.0	1.75	3.50	1.20	4.00	2.00	4.00	0.23	
252012	8.00	2.40	2.85	1.50	1.0	1.75	3.50	1.40	4.00	2.00	4.00	0.23	
322510	8.00	2.90	3.55	1.50	1.0	1.75	3.50	1.20	4.00	2.00	4.00	0.23	
322512	8.00	2.90	3.55	1.50	1.0	1.75	3.50	1.40	4.00	2.00	4.00	0.23	
322520	8.00	2.90	3.55	1.50	1.0	1.75	3.50	2.20	4.00	2.00	4.00	0.28	
303012	8.00	3.40	3.45	1.50	1.0	1.75	3.50	1.35	4.00	2.00	4.00	0.23	
303015	12.0	3.40	3.45	1.50	1.0	1.75	5.50	1.70	4.00	2.00	8.00	0.35	
303018	12.0	3.40	3.45	1.50	1.0	1.75	5.50	2.00	4.00	2.00	8.00	0.35	
303020	12.0	3.40	3.40	1.50	1.0	1.75	5.50	2.20	4.00	2.00	8.00	0.35	
404012	12.0	4.40	4.40	1.50	1.0	1.75	5.50	1.40	4.00	2.00	8.00	0.35	
404020	12.0	4.5±0.1	4.5±0.1	1.5	1.5	1.75	5.5	2.4±0.1	4.00	2.00	8.00	0.30	
404030	12.0	4.40	4.40	1.50	1.0	1.75	5.50	3.40	4.00	2.00	8.00	0.35	

10.2 Dimension of Reel：(Unit: mm)

Type	A ±2.0	B ±1.0	C ±0.5	D ±0.2
All	178	60	9.0	1.0

Type	A ±2.0	B ±1.0	C ±1.0	D ±0.3
All	330	100	13.5	2.0



11. Note

11.1 Huacui recommend products store in warehouse with temperature between 15 to 35℃ under humidity between 25 to 75%RH.
Even under storage conditions recommended above, solder ability of products will be degraded stored over 1 year old.

11.2 Cartons must be placed in correct direction which indicated on carton, otherwise the reel or wire will be deformed.

11.3 Storage conditions as below are inappropriate:

a. Stored in high electrostatic environment

b. Stored in direct sunshine, rain, snow or condensation.

c. Exposed to sea wind or corrosive gases, such as Cl_2, H_2S, NH_3, SO_2, NO_2, etc.

11.4 The products are used in circuit board thickness greater than 1.6mm. If customers use less than the thickness of the circuit board that you should confirm with the company, in order to recommend a more suitable product.

12. Record

Version	Description	Page	Date	Amended by	Checked by
A0	First version	1~23	Nov.21.2022	Xi Rui.Niu	Dirk.Wang
A1	newlyincreased： PIM303020D1R5MBCA PIM252010S6R8MBCA PIM252010S220MBCA PIM322510S2R2MBCA PIM201208SR47MBCD	1~23	Dec. 14.2022	Xi Rui.Niu	Dirk.Wang
A2	newlyincreased： PIM303018D4R7MBCA PIM322510S3R3MBCA PIM322510S4R7MBCA	1~23	Dec.29.2022	Xi Rui.Niu	Dirk.Wang
A3	newlyincreased： PIM141207SR24MBCA PIM141207SR47MBCA PIM201612SR47MBCA PIM303018DR22MBCA PIM322512SR10MBCA PIM322510SR68MBCA	1~24	Jan. 18.2023	Xi Rui.Niu	Dirk.Wang
A4	newlyincreased: PIM322512SR10MBCA PIM322510SR68MBCA	1~24	Feb. 10.2023	Xi Rui.Niu	Dirk.Wang
A5	newlyincreased: PIM252010SR47MBCD PIM322510S1R0MBCA PIM322512S6R8MBCA PIM322512S100MBCA	1~24	Feb.23.2023	Xi Rui.Niu	Dirk.Wang
A6	newlyincreased: PIM201208SR68MBCA PIM201612S2R2MBCA PIM252008S1R0MBCA PIM252008S2R2MBCA PIM252012SR68MBCD PIM322510SR33MBCA PIM322510SR47MBCA PIM322510S1R5MBCA PIM322510S100MBCA PIM303018D1R5MBCA Revise： PIM160808SR47MGCDM Rdc由48/55改為38/45	1~24	Mar.3.2023	Xi Rui.Niu	Dirk.Wang
A7	newlyincreased: PIM322510S6R8MBCA PIM303012D100MBCA PIM303020DR50MBCA PIM303020DR68MBCA PIM252075S2R2MGCA PIM201208S4R7MBCA	1~26	Apr.28.2023	Xi Rui.Niu	Dirk.Wang
A8	newlyincreased: PIM303015D220MBCA PIM303020D100MBCA PIM404012S1R0MBCA PIM404030S4R7MGCA PIM303020D3R3MBCA PIM252008S1R5MBCA PIM201608S100MBCA PIM201612SR15MBCA PIM201612S3R3MBCA PIM252008SR47MBCA PIM252008S3R3MBCA PIM201610S100MBCA PIM322520S1R0MBCA PIM141208SR24MBCD PIM201612SR68MBCA PIM201612S1R0MBCA PIM252012SR82MBCA	1~27	May.31.2023	Xi Rui.Niu	Dirk.Wang
A9	newlyincreased: PIM201610S6R8MBCA PIM201208S3R3MBCA PIM201210S100MBCA PIM303020D4R7MBCA PIM303020D6R8MBCA PIM322520S47MBCA PIM322520SR68MBCA PIM404020S2R2MGCA PIM404010S100MBCA	1~30	Jun.30.2023	Xi Rui.Niu	Congdian.Lu
B1	newlyincreased: PIM160808SR24MBCD PIM160808S4R7MBCA PIM252008S100MBCA PIM252010S2R2MBCD PIM322520SR33MBCA PIM322520S2R2MBCA PIM322520S3R3MBCA PIM322520S4R7MBCA PIM303020DR33MBCA PIM404012S1R5MBCA PIM404020S4R7MGCA PIM404020S100MGCA PIM404020S150MGCA PIM404020S220MGCA PIM404030SR68MBCA PIM404030S6R8MBCA	1~31	Jul.29.2023	Ning.Song	Congdian.Lu