

Mimi Molded SMD Power Inductors - APH-C Series

FEATURES

- Winding type realizes small size and low profile.
- Metal material for large current and low loss.
- High performance (Isat) realized by metal dust core.
- Low loss realized with low Rdc.
- Closed magnetic circuit design reduces leakage flux.
- Vinyl thermal spray, better surface compactness.
- 100% lead (Pb) free meet RoHS standard.
- Operating Temperature Range -55°C to + 125°C.



APPLICATIONS

- Multimedia system.
- DC/DC converters.
- Pad, Smart phone, WIFI 6.
- Portable gaming devices, Smart wear, Wi-Fi module.
- Notebooks, VR, AR, SSD, TWS.
- LCD displays, HDDs, DVCs, DSCs, etc.
- Baseband power supply, Amplifier, Power management.
- Module power supply, Camera power manageme.

PART NUMBERING

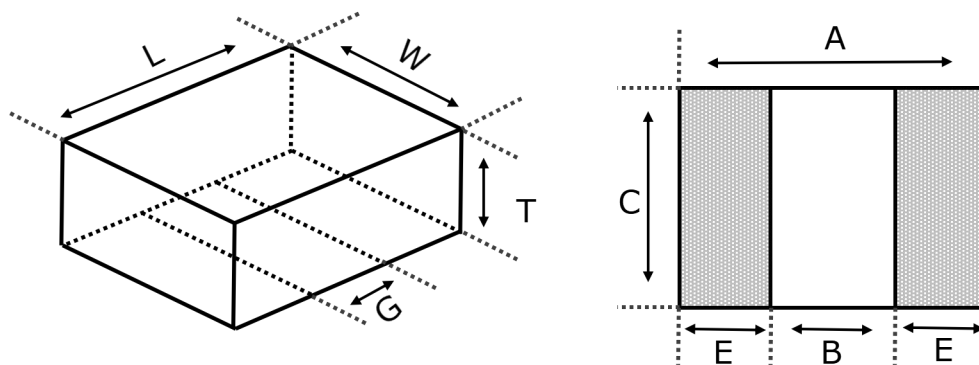
APH	201610	C	1R0	M	□□
①	②	③	④	⑤	⑥
Series Name	External Dimensions	Feature Type	Nominal Inductance	Inductance Tolerance	Design Code

① Series Name	
APH	Mini Molding Power Inductors
③ Feature Type	
C	
④ Nominal Inductance	
Code (example)	Nominal Inductance [μH]
R68	0.68
1R0	1.0
4R7	4.7
⑤ Inductance Tolerance	
M	±20%
⑥ Design Code	
Code (example)	P01,P02,P03,---

② External Dimensions	
141265	1.4x1.2x0.65
141207	1.4x1.2x0.70
141208	1.4x1.2x0.80
160865	1.6x0.8x0.65
160808	1.6x0.8x0.80
201265	2.0x1.2x0.65
201208	2.0x1.2x0.80
201210	2.0x1.2x1.00
201212	2.0x1.2x1.20
201655	2.0x1.6x0.55
201665	2.0x1.6x0.65
201607	2.0x1.6x0.70
201608	2.0x1.6x0.80
201610	2.0x1.6x1.00
201612	2.0x1.6x1.20
252055	2.5x2.0x0.55
252008	2.5x2.0x0.80
252010	2.5x2.0x1.00
252012	2.5x2.0x1.20
303010	3.0x3.0x1.00
303012	3.0x3.0x1.20
303015	3.0x3.0x1.50
303018	3.0x3.0x1.80
303020	3.0x3.0x2.00
322510	3.2x2.5x1.00
322512	3.2x2.5x1.20
322520	3.2x2.5x2.00

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DIMENSIONS & RECOMMENDED LAND PATTERN



Recommended Land Pattern

Unit: mm

Series	L	W	T	E	G Typ.	A Typ.	B Typ.	C Typ.
APH141265C	1.4±0.2	1.2±0.2	0.65Max.	0.45±0.2	0.5	1.5	0.4	1.3
APH141207C	1.4±0.2	1.2±0.2	0.70Max.	0.45±0.2	0.5	1.5	0.4	1.3
APH141208C	1.4±0.2	1.2±0.2	0.80Max.	0.45±0.2	0.5	1.5	0.4	1.3
APH160865C	1.6±0.2	0.8±0.2	0.65Max.	0.50±0.2	0.6	1.7	0.5	0.9
APH160808C	1.6±0.2	0.8±0.2	0.80Max.	0.50±0.2	0.6	1.7	0.5	0.9
APH201265C	2.0±0.2	1.2±0.2	0.65Max.	0.70±0.2	0.6	2.1	0.5	1.3
APH201208C	2.0±0.2	1.2±0.2	0.80Max.	0.70±0.2	0.6	2.1	0.5	1.3
APH201210C	2.0±0.2	1.2±0.2	1.00Max.	0.70±0.2	0.6	2.1	0.5	1.3
APH201212C	2.0±0.2	1.2±0.2	1.20Max.	0.70±0.2	0.6	2.1	0.5	1.3
APH201655C	2.0±0.2	1.6±0.2	0.55Max.	0.70±0.2	0.6	2.1	0.5	1.7
APH201665C	2.0±0.2	1.6±0.2	0.65Max.	0.70±0.2	0.6	2.1	0.5	1.7
APH201607C	2.0±0.2	1.6±0.2	0.70Max.	0.70±0.2	0.6	2.1	0.5	1.7
APH201608C	2.0±0.2	1.6±0.2	0.80Max.	0.70±0.2	0.6	2.1	0.5	1.7
APH201610C	2.0±0.2	1.6±0.2	1.00Max.	0.70±0.2	0.6	2.1	0.5	1.7
APH201612C	2.0±0.2	1.6±0.2	1.20Max.	0.70±0.2	0.6	2.1	0.5	1.7
APH252055C	2.5±0.2	2.0±0.2	0.55Max.	0.85±0.2	0.8	2.6	0.7	2.1
APH252008C	2.5±0.2	2.0±0.2	0.80Max.	0.85±0.2	0.8	2.6	0.7	2.1
APH252010C	2.5±0.2	2.0±0.2	1.00Max.	0.85±0.2	0.8	2.6	0.7	2.1
APH252012C	2.5±0.2	2.0±0.2	1.20Max.	0.85±0.2	0.8	2.6	0.7	2.1
APH303010C	3.0±0.1	3.0±0.1	1.00Max.	1.00±0.2	1.0	3.0	0.9	3.0
APH303012C	3.0±0.1	3.0±0.1	1.20Max.	1.00±0.2	1.0	3.0	0.9	3.0
APH303015C	3.0±0.1	3.0±0.1	1.50Max.	1.00±0.2	1.0	3.0	0.9	3.0
APH303018C	3.0±0.1	3.0±0.1	1.80Max.	1.00±0.2	1.0	3.0	0.9	3.0
APH303020C	3.0±0.1	3.0±0.1	2.00Max.	1.00±0.2	1.0	3.0	0.9	3.0
APH322510C	3.2±0.2	2.5±0.2	1.00Max.	1.05±0.2	1.1	3.2	1.0	2.5
APH322512C	3.2±0.2	2.5±0.2	1.20Max.	1.05±0.2	1.1	3.2	1.0	2.5
APH322520C	3.2±0.2	2.5±0.2	2.00Max.	1.05±0.2	1.1	3.2	1.0	2.5

Mimi Molded SMD Power Inductors - APH-C Series

ELECTRICAL CHARACTERISTICS

● APH141265C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH141265CR24MP01	0.24	±20%	27	23	6.0	6.5	5.0	5.5
APH141265CR33MP01	0.33	±20%	32	26	4.2	4.4	4.0	4.4
APH141265CR47MP01	0.47	±20%	45	37	2.7	3.0	3.0	3.4

● APH141207C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH141207CR24MP01	0.24	±20%	28	22	3.6	4.0	4.3	4.6
APH141207CR47MP01	0.47	±20%	38	34	3.3	3.8	3.5	3.8

● APH141208C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH141208CR24MP01	0.24	±20%	27	22	3.7	4.1	5.7	6.0
APH141208CR24MP02	0.24	±20%	24	21	6.0	6.6	6.5	7.2
APH141208CR33MP01	0.33	±20%	28	23	3.5	4.0	5.0	5.3
APH141208CR47MP01	0.47	±20%	35	29	3.3	3.8	4.2	4.6
APH141208C1R0MP01	1.0	±20%	77	65	2.5	3.0	2.5	3.0
APH141208C2R2MP01	2.2	±20%	225	200	1.8	2.0	1.7	1.9

● APH160865C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH160865C2R2MP01	2.2	±20%	430	390	1.1	1.3	1.3	1.6

● APH160808C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH160808CR22MP01	0.22	±20%	40	33	3.0	3.4	5.0	5.5
APH160808CR24MP01	0.24	±20%	41	34	2.9	3.3	4.8	5.3
APH160808CR24MP02	0.24	±20%	26	22	3.5	3.9	4.4	4.9

Mimi Molded SMD Power Inductors - APH-C Series

ELECTRICAL CHARACTERISTICS

● APH160808C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH160808CR24MP03	0.24	±20%	24	20	5.0	5.5	4.8	5.3
APH160808CR33MP01	0.33	±20%	35	30	4.3	4.7	4.4	4.7
APH160808CR47MP01	0.47	±20%	100	80	2.3	2.6	3.7	4.1
APH160808CR47MP02	0.47	±20%	45	38	3.4	3.8	3.5	4.0
APH160808CR56MP01	0.56	±20%	110	85	1.9	2.2	3.5	4.0
APH160808CR56MP02	0.56	±20%	63	51	2.2	2.5	2.7	3.0
APH160808CR68MP01	0.68	±20%	130	110	1.9	2.1	3.0	3.3
APH160808C1R0MP01	1.0	±20%	200	180	1.8	2.1	2.6	3.0
APH160808C1R5MP01	1.5	±20%	285	240	1.4	1.7	2.0	2.4
APH160808C3R3MP01	3.3	±20%	600	500	0.9	1.0	1.2	1.4
APH160808C4R7MP01	4.7	±20%	700	585	0.8	1.0	1.0	1.2
APH160808C100MP01	10	±20%	1600	1450	0.5	0.5	0.7	0.8

● APH201265C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH201265C1R0MP01	1.0	±20%	86	78	2.3	2.6	2.5	2.8
APH201265C2R2MP01	2.2	±20%	230	215	1.4	1.7	1.5	1.8
APH201265C2R2MP02	2.2	±20%	210	175	1.3	1.4	1.3	1.4
APH201265C2R2MP03	2.2	±20%	200	175	1.5	1.8	1.6	1.9

● APH201208C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH201208CR11MP01	0.11	±20%	12	10	6.5	7.0	9.0	9.5
APH201208CR15MP01	0.15	±20%	13	11	6.3	6.8	7.0	7.5
APH201208CR24MP01	0.24	±20%	23	18	5.9	6.5	6.0	6.5
APH201208CR24MP03	0.24	±20%	18	16	6.5	7.0	7.0	7.2
APH201208CR33MP01	0.33	±20%	45	33	4.0	4.3	4.8	5.2
APH201208CR47MP01	0.47	±20%	50	34	3.3	3.5	4.6	5.0
APH201208CR47MP02	0.47	±20%	28	24	4.5	4.7	4.8	5.2
APH201208CR68MP01	0.68	±20%	60	50	3.3	3.7	3.7	4.2
APH201208C1R0MP01	1.0	±20%	70	55	2.9	3.3	3.5	4.0
APH201208C1R0MP02	1.0	±20%	55	48	2.8	3.2	2.8	3.2
APH201208C1R5MP01	1.5	±20%	135	118	1.9	2.2	2.5	3.0
APH201208C2R2MP01	2.2	±20%	185	160	1.8	2.2	2.3	2.6

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ELECTRICAL CHARACTERISTICS

● APH201208C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH201208C2R2MP03	2.2	±20%	156	130	1.6	1.8	2.0	2.2
APH201208C3R3MP01	3.3	±20%	300	253	1.5	1.8	1.6	1.9
APH201208C4R7MP01	4.7	±20%	325	285	1.5	1.7	1.4	1.6

● APH201210C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH201210CR10MP01	0.1	±20%	13	8	7.0	7.5	8.0	8.5
APH201210CR11MP01	0.11	±20%	9	7	9.5	10.0	12.0	14.1
APH201210CR22MP01	0.22	±20%	22	16	6.5	7.1	6.8	7.3
APH201210CR24MP01	0.24	±20%	23	17	6.4	7.0	6.7	7.2
APH201210CR33MP01	0.33	±20%	32	24	5.0	5.5	6.0	6.5
APH201210CR47MP01	0.47	±20%	36	29	4.3	4.7	5.0	5.5
APH201210CR47MP02	0.47	±20%	20	18	6.5	7.0	5.5	6.0
APH201210CR56MP01	0.56	±20%	31	26	4.7	5.3	4.8	5.2
APH201210CR68MP01	0.68	±20%	43	37	4.0	4.3	4.5	5.0
APH201210C1R0MP01	1.0	±20%	63	55	3.5	3.9	3.5	4.0
APH201210C1R0MP02	1.0	±20%	55	50	3.5	4.0	3.5	4.0
APH201210C1R5MP01	1.5	±20%	85	76	2.6	3.1	2.7	3.2
APH201210C2R2MP01	2.2	±20%	150	135	1.7	2.0	2.4	2.7
APH201210C3R3MP01	3.3	±20%	260	210	1.5	1.8	1.8	2.2
APH201210C4R7MP01	4.7	±20%	300	275	1.4	1.6	1.6	1.8
APH201210C6R8MP01	6.8	±20%	520	440	1.3	1.5	1.2	1.5
APH201210C100MP01	10	±20%	660	600	1.0	1.1	1.0	1.2

● APH201212C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH201212CR11MP01	0.11	±20%	6	6	11.0	12.0	11.0	12.0
APH201212CR11MP02	0.11	±20%	6	5	11.0	12.0	11.0	12.0
APH201212CR24MP01	0.24	±20%	16	13	7.0	7.5	8.5	9.0
APH201212CR24MP02	0.24	±20%	15	13	7.2	7.7	8.5	9.0
APH201212CR47MP01	0.47	±20%	24	20	5.5	6.0	5.0	5.5
APH201212CR47MP02	0.47	±20%	22	20	5.7	6.2	5.0	5.5
APH201212C3R3MP01	3.3	±20%	210	180	1.6	1.8	1.8	2.0

Mimi Molded SMD Power Inductors - APH-C Series

ELECTRICAL CHARACTERISTICS

● APH201655C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH201655CR33MP01	0.33	±20%	41	34	3.5	4.0	3.5	4.0
APH201655CR47MP01	0.47	±20%	53	44	3.0	3.5	3.0	3.5

● APH201665C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH201665CR47MP01	0.47	±20%	40	33	4.5	5.0	4.0	4.4
APH201665C1R0MP01	1.0	±20%	70	58	3.0	3.5	2.7	3.0
APH201665C2R2MP01	2.2	±20%	170	145	2.6	2.8	2.0	2.2

● APH201607C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH201607C2R2MP01	2.2	±20%	175	150	1.8	2.1	2.0	2.3

● APH201608C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH201608CR22MP01	0.22	±20%	19	14	5.9	6.6	5.6	6.1
APH201608CR24MP01	0.24	±20%	20	14	5.8	6.5	5.5	6.0
APH201608CR33MP01	0.33	±20%	24	18	4.8	5.5	5.3	5.8
APH201608CR47MP01	0.47	±20%	27	24	4.4	4.6	5.0	5.5
APH201608CR68MP01	0.68	±20%	44	39	3.5	3.8	4.2	4.6
APH201608C1R0MP01	1.0	±20%	60	53	3.3	3.6	3.1	3.3
APH201608C1R5MP01	1.5	±20%	85	73	2.8	3.1	2.8	3.0
APH201608C2R2MP01	2.2	±20%	140	123	2.0	2.2	2.3	2.5
APH201608C2R2MP03	2.2	±20%	180	150	2.1	2.3	2.2	2.4
APH201608C3R3MP01	3.3	±20%	220	200	1.5	1.8	1.8	2.1
APH201608C4R7MP01	4.7	±20%	290	260	1.4	1.6	1.5	1.7
APH201608C4R7MP03	4.7	±20%	325	270	1.2	1.4	1.3	1.5
APH201608C100MP01	10	±20%	800	690	0.9	1.0	0.9	1.0

Mimi Molded SMD Power Inductors - APH-C Series

ELECTRICAL CHARACTERISTICS

● APH201610C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH201610CR10MP01	0.1	±20%	12	7	8.0	8.5	8.4	9.0
APH201610CR11MP01	0.11	±20%	13	8	7.5	8.0	8.2	8.9
APH201610CR15MP01	0.15	±20%	14	8	7.0	7.6	8.0	8.7
APH201610CR22MP01	0.22	±20%	18	11	6.3	6.9	7.5	8.2
APH201610CR24MP01	0.24	±20%	19	12	6.2	6.8	7.4	8.0
APH201610CR24MP02	0.24	±20%	14	11	6.2	6.8	7.4	8.0
APH201610CR33MP01	0.33	±20%	22	17	5.3	5.7	6.5	7.0
APH201610CR47MP01	0.47	±20%	25	22	5.0	5.5	5.5	6.3
APH201610CR47MP03	0.47	±20%	25	22	5.6	5.8	6.0	6.5
APH201610CR47MP13	0.47	±20%	23	19	6.0	6.5	6.5	7.0
APH201610CR56MP01	0.56	±20%	23	19	7.0	7.5	5.0	5.5
APH201610CR68MP01	0.68	±20%	32	25	4.3	4.6	4.7	5.2
APH201610CR68MP03	0.68	±20%	32	25	5.2	5.5	5.5	5.7
APH201610C1R0MP01	1.0	±20%	43	35	4.1	4.5	4.2	4.6
APH201610C1R0MP02	1.0	±20%	36	31	4.2	4.6	4.2	4.7
APH201610C1R5MP01	1.5	±20%	100	80	2.3	2.6	2.9	3.2
APH201610C1R5MP02	1.5	±20%	70	60	3.5	4.0	3.0	3.3
APH201610C2R2MP01	2.2	±20%	130	120	2.1	2.5	2.8	3.0
APH201610C2R2MP03	2.2	±20%	125	115	2.2	2.5	3.0	3.3
APH201610C3R3MP01	3.3	±20%	170	140	1.5	1.7	2.0	2.3
APH201610C4R7MP03	4.7	±20%	276	250	1.4	1.6	1.7	1.9
APH201610C4R7MP01	4.7	±20%	220	190	1.4	1.6	1.8	2.0
APH201610C6R8MP01	6.8	±20%	350	320	1.5	1.7	1.5	1.7
APH201610C100MP01	10	±20%	580	483	0.7	1.0	1.1	1.4

● APH201612C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH201612CR10MP01	0.1	±20%	6	4	10.0	12.0	11.5	13.0
APH201612CR11MP01	0.11	±20%	6	5	14.5	15.5	11.0	12.5
APH201612CR11MP03	0.11	±20%	8	6	12.0	13.0	14.0	15.0
APH201612CR15MP01	0.15	±20%	10	8	9.0	10.0	10.5	12.0
APH201612CR24MP01	0.24	±20%	11	9	8.6	9.1	8.7	9.2
APH201612CR24MP03	0.24	±20%	13	10	10.0	11.0	10.0	10.5
APH201612CR33MP01	0.33	±20%	15	10	7.2	7.7	7.3	7.8
APH201612CR47MP01	0.47	±20%	17	13	6.0	6.7	6.0	6.7
APH201612CR68MP01	0.68	±20%	23	19	5.3	6.0	5.3	6.0
APH201612C1R0MP01	1.0	±20%	36	30	4.5	5.0	4.5	5.0

Mimi Molded SMD Power Inductors - APH-C Series

ELECTRICAL CHARACTERISTICS

● APH201612C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH201612C1R5MP01	1.5	±20%	50	40	3.5	4.0	3.5	4.0
APH201612C2R2MP01	2.2	±20%	90	77	2.9	3.3	2.7	3.1
APH201612C3R3MP01	3.3	±20%	165	135	2.0	2.4	2.3	2.7
APH201612C6R8MP01	6.8	±20%	300	255	1.7	1.8	1.7	1.9

● APH252055C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH252055CR22MP01	0.22	±20%	28	23	6.0	6.5	4.5	4.8
APH252055CR47MP01	0.47	±20%	49	42	5.2	5.5	3.2	3.5

● APH252008C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH252008CR47MP01	0.47	±20%	27	22	6.0	6.5	5.3	6.0
APH252008C1R0MP01	1.0	±20%	40	34	4.0	4.3	4.0	4.5
APH252008C1R5MP01	1.5	±20%	75	64	3.0	3.4	3.0	3.5
APH252008C2R2MP01	2.2	±20%	77	69	2.6	3.0	2.6	3.0
APH252008C3R3MP01	3.3	±20%	180	150	2.1	2.5	2.1	2.5
APH252008C4R7MP01	4.7	±20%	215	180	1.5	2.0	1.5	1.9
APH252008C100MP01	10	±20%	600	500	1.2	1.4	0.9	1.1
APH252008C100MP02	10	±20%	540	490	1.3	1.4	1.1	1.3

● APH252010C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH252010CR22MP01	0.22	±20%	17	12	6.5	6.8	7.9	8.6
APH252010CR24MP01	0.24	±20%	18	12	6.4	6.7	7.8	8.5
APH252010CR33MP01	0.33	±20%	19	13	6.2	6.5	7.2	7.6
APH252010CR47MP01	0.47	±20%	22	15	5.6	6.1	6.5	7.2
APH252010CR47MP02	0.47	±20%	15	13	6.0	6.5	6.0	6.6
APH252010CR68MP01	0.68	±20%	27	23	5.0	5.6	5.5	5.9
APH252010CR82MP01	0.82	±20%	29	25	4.1	4.5	4.8	5.3

Mimi Molded SMD Power Inductors - APH-C Series

ELECTRICAL CHARACTERISTICS

● APH252010C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH252010C1R0MP01	1.0	±20%	30	25	4.1	4.7	4.8	5.4
APH252010C1R0MP02	1.0	±20%	28	25	7.0	7.5	4.5	5.0
APH252010C1R5MP01	1.5	±20%	55	45	3.0	3.4	3.9	4.3
APH252010C1R8MP01	1.8	±20%	60	50	3.5	4.0	3.5	4.0
APH252010C2R2MP01	2.2	±20%	70	62	2.1	2.4	3.0	3.3
APH252010C2R2MP03	2.2	±20%	70	62	2.3	2.6	3.3	3.7
APH252010C2R2MP02	2.2	±20%	70	62	3.2	4.0	3.1	3.4
APH252010C3R3MP01	3.3	±20%	100	86	2.1	2.5	2.5	2.8
APH252010C4R7MP01	4.7	±20%	180	160	1.6	2.0	2.0	2.6
APH252010C4R7MP02	4.7	±20%	160	145	1.6	2.0	2.0	2.6
APH252010C4R7MP03	4.7	±20%	130	120	2.8	3.0	2.0	2.2
APH252010C6R8MP01	6.8	±20%	320	270	1.4	1.6	1.9	2.4
APH252010C100MP01	10	±20%	560	500	1.0	1.1	1.4	1.6

● APH252012C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH252012CR10MP01	0.1	±20%	10	6	10.5	12.0	12.5	13.5
APH252012CR10MP02	0.1	±20%	5	4	15.0	16.0	14.0	15.0
APH252012CR11MP01	0.11	±20%	5	4	14.0	15.0	13.0	14.0
APH252012CR15MP01	0.15	±20%	11	7	10.0	11.5	12.0	13.0
APH252012CR22MP01	0.22	±20%	14	9	7.6	8.2	9.0	9.6
APH252012CR22MP02	0.22	±20%	10	8	8.0	11.0	10.0	12.0
APH252012CR24MP01	0.24	±20%	15	10	7.5	8.0	8.8	9.3
APH252012CR33MP01	0.33	±20%	17	11	6.4	6.8	7.8	8.3
APH252012CR33MP02	0.33	±20%	12	10	8.5	9.0	8.5	9.0
APH252012CR47MP01	0.47	±20%	19	13	6.0	6.5	7.0	7.5
APH252012CR47MP02	0.47	±20%	13	11	7.5	8.0	8.0	8.5
APH252012CR68MP01	0.68	±20%	23	17	5.5	6.3	6.0	6.5
APH252012CR68MP02	0.68	±20%	18	15	7.0	7.5	6.0	6.7
APH252012CR82MP01	0.82	±20%	24	19	5.3	5.8	5.8	6.5
APH252012CR82MP02	0.82	±20%	23	19	5.8	6.3	5.8	6.5
APH252012C1R0MP01	1.0	±20%	42	35	3.6	4.0	5.0	5.6
APH252012C1R0MP02	1.0	±20%	22	16	5.6	6.1	6.0	6.5
APH252012C1R0MP03	1.0	±20%	36	30	5.0	5.5	5.0	5.6
APH252012C1R2MP01	1.2	±20%	45	40	3.4	3.8	4.1	4.5
APH252012C1R2MP02	1.2	±20%	35	29	5.2	5.7	4.8	5.3
APH252012C1R5MP01	1.5	±20%	50	44	3.2	3.7	4.1	4.5

Mimi Molded SMD Power Inductors - APH-C Series

ELECTRICAL CHARACTERISTICS

● APH252012C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH252012C1R5MP02	1.5	±20%	32	27	4.2	4.6	4.4	4.7
APH252012C1R5MP03	1.5	±20%	35	31	4.1	4.5	4.2	4.5
APH252012C2R2MP01	2.2	±20%	65	55	2.7	3.0	3.3	3.8
APH252012C3R3MP01	3.3	±20%	97	80	1.8	2.3	2.7	3.0
APH252012C4R7MP01	4.7	±20%	170	150	1.5	1.8	2.1	2.4
APH252012C6R8MP01	6.8	±20%	270	245	1.4	1.6	1.7	2.0
APH252012C100MP01	10	±20%	400	330	1.1	1.2	1.5	1.6
APH252012C150MP01	15	±20%	565	500	1.3	1.4	1.3	1.4
APH252012C220MP01	22	±20%	800	740	1.1	1.2	1.0	1.1

● APH303010C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH303010C1R0MP02	1.0	±20%	30	25	6.5	7.0	5.6	6.0
APH303010C1R0MP03	1.0	±20%	35	30	6.5	7.0	4.8	5.3
APH303010C2R2MP03	2.2	±20%	66	55	4.5	5.0	3.5	4.0
APH303010C4R7MP03	4.7	±20%	140	120	2.8	3.2	2.3	2.7
APH303010C6R8MP03	6.8	±20%	270	225	1.8	2.1	1.5	1.8
APH303010C100MP01	10	±20%	360	320	1.7	2.0	1.3	1.6
APH303010C100MP02	10	±20%	275	250	2.0	2.2	1.5	1.8

● APH303012C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH303012C1R0MP03	0.1	±20%	6	5	17.0	18.0	18.0	20.0
APH303012C4R7MP03	0.47	±20%	11	9	10.0	11.0	8.0	8.5
APH303012C1R0MP03	1.0	±20%	27	23	5.0	5.5	5.5	6.0
APH303012C1R5MP03	1.5	±20%	34	29	5.5	6.0	5.0	5.5
APH303012C4R7MP03	4.7	±20%	120	100	2.5	3.0	2.5	3.0
APH303012C100MP03	10	±20%	220	192	1.9	2.3	2.0	2.3
APH303012C150MP03	15	±20%	380	345	1.3	1.6	1.6	1.9

Mimi Molded SMD Power Inductors - APH-C Series

ELECTRICAL CHARACTERISTICS

● APH303015C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH303015CR15MP03	0.15	±20%	6	5	11.0	12.0	15.0	16.0
APH303015CR47MP03	0.47	±20%	11	9	8.0	9.0	9.0	10.0
APH303015C1R0MP03	1.0	±20%	22	18	5.5	6.0	6.5	7.0
APH303015C1R5MP03	1.5	±20%	26	22	7.5	8.0	5.5	6.0
APH303015C2R2MP03	2.2	±20%	50	42	4.0	4.5	4.5	5.0
APH303015C4R7MP03	4.7	±20%	104	87	3.0	3.5	3.5	4.0
APH303015C6R8MP03	6.8	±20%	180	160	2.0	2.5	3.0	3.5
APH303015C100MP03	10	±20%	215	185	1.5	2.0	2.5	2.8
APH303015C220MP03	22	±20%	700	580	1.0	1.2	1.2	1.6

● APH303018C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH303018CR22MP03	0.22	±20%	7	6	9.0	10.0	16.0	17.0
APH303018CR47MP03	0.47	±20%	10	8	8.0	9.0	11.0	12.0
APH303018C1R0MP03	1.0	±20%	21	15	5.8	6.3	6.8	7.6
APH303018C1R5MP03	1.5	±20%	26	20	6.4	6.8	7.0	8.0
APH303018C4R7MP03	4.7	±20%	87	72	3.0	3.4	4.2	4.7

● APH303020C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH303020CR15MP03	0.15	±20%	5	4	12.0	13.0	17.0	18.0
APH303020CR33MP03	0.33	±20%	9	8	9.0	10.0	15.0	17.0
APH303020CR47MP03	0.47	±20%	11	8	8.0	9.0	13.5	15.0
APH303020CR50MP03	0.5	±20%	12	9	8.0	9.0	13.0	15.0
APH303020CR68MP03	0.68	±20%	16	13	7.8	8.5	11.0	13.0
APH303020C1R0MP03	1.0	±20%	20	14	6.0	6.5	7.3	8.0
APH303020C1R5MP03	1.5	±20%	25	19	5.8	6.3	6.5	7.0
APH303020C2R2MP03	2.2	±20%	45	37	4.3	4.7	5.5	6.0
APH303020C3R3MP03	3.3	±20%	63	52	4.0	4.5	5.4	5.9
APH303020C4R7MP03	4.7	±20%	73	60	3.8	4.2	4.0	4.8
APH303020C6R8MP03	6.8	±20%	135	107	3.0	3.2	3.8	4.5
APH303020C100MP03	10	±20%	160	135	2.2	2.5	3.3	3.8
APH303020C150MP03	15	±20%	260	235	1.5	1.8	2.2	2.6

Mimi Molded SMD Power Inductors - APH-C Series

ELECTRICAL CHARACTERISTICS

● APH322510C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH322510CR22MP01	0.22	±20%	11	9	8.0	8.5	8.0	8.5
APH322510CR33MP01	0.33	±20%	15	11	7.8	8.3	7.8	8.3
APH322510CR47MP01	0.47	±20%	22	17	5.9	6.4	7.6	8.3
APH322510CR68MP01	0.68	±20%	28	22	5.7	6.2	7.0	7.5
APH322510C1R0MP01	1.0	±20%	30	25	4.9	5.4	5.3	6.0
APH322510C1R5MP01	1.5	±20%	42	34	3.6	4.0	4.4	5.0
APH322510C2R2MP01	2.2	±20%	66	55	3.4	3.7	3.5	4.0
APH322510C3R3MP01	3.3	±20%	120	105	2.3	2.7	3.3	3.7
APH322510C4R7MP01	4.7	±20%	140	125	1.9	2.3	2.5	2.8
APH322510C6R8MP01	6.8	±20%	320	290	1.6	1.9	2.0	2.4
APH322510C100MP01	10	±20%	365	325	1.8	2.2	1.8	2.2

● APH322512C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH322512CR10MP01	0.1	±20%	7	5	11.0	12.0	16.5	18.0
APH322512CR11MP01	0.11	±20%	6	5	12.0	13.0	15.5	17.0
APH322512CR22MP01	0.22	±20%	10	7	8.7	9.2	11.0	11.5
APH322512CR24MP01	0.24	±20%	12	7	8.5	9.0	10.5	11.0
APH322512CR33MP01	0.33	±20%	14	9	8.1	8.4	9.5	10.0
APH322512CR47MP01	0.47	±20%	19	14	7.2	7.5	8.2	8.6
APH322512CR47MP02	0.47	±20%	14	11	7.2	7.5	8.2	8.6
APH322512CR47MP03	0.47	±20%	11	10	8.0	8.5	8.0	8.5
APH322512CR68MP01	0.68	±20%	23	18	6.8	7.3	7.7	8.1
APH322512CR68MP02	0.68	±20%	15	12	6.5	7.0	7.5	8.0
APH322512C1R0MP01	1.0	±20%	30	26	4.8	5.3	5.8	6.6
APH322512C1R0MP02	1.0	±20%	21	18	6.0	6.5	7.0	7.7
APH322512C1R5MP01	1.5	±20%	44	37	4.3	4.7	4.7	5.1
APH322512C2R2MP01	2.2	±20%	70	58	3.0	3.6	4.2	4.6
APH322512C2R2MP02	2.2	±20%	50	42	3.7	4.2	4.5	5.0
APH322512C3R3MP01	3.3	±20%	95	75	2.5	2.9	3.2	3.7
APH322512C4R7MP01	4.7	±20%	135	115	2.0	2.3	2.6	2.9
APH322512C4R7MP03	4.7	±20%	120	105	2.1	2.5	2.6	3.0
APH322512C4R7MP13	4.7	±20%	135	115	2.0	2.3	2.8	3.2
APH322512C6R8MP01	6.8	±20%	210	177	1.9	2.1	2.4	2.8
APH322512C100MP01	10	±20%	230	210	1.8	2.2	1.9	2.3

Mimi Molded SMD Power Inductors - APH-C Series

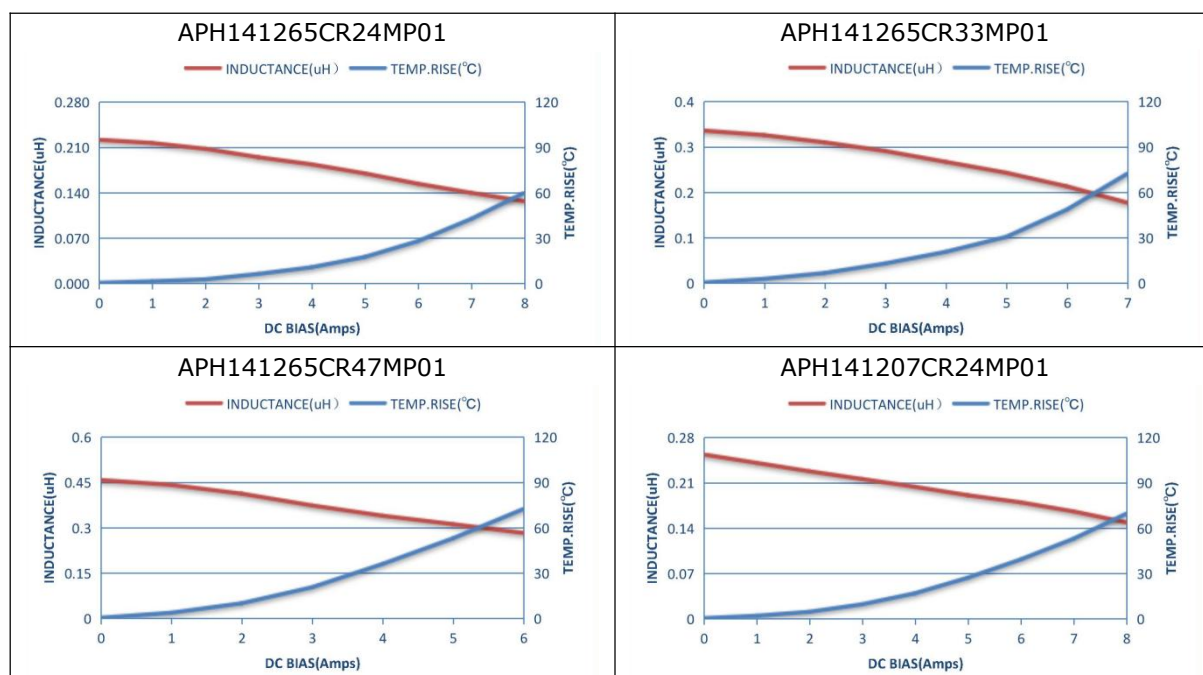
ELECTRICAL CHARACTERISTICS

● APH322520C Series

Part Number	Inductance	Inductance Tolerance	DC Resistance		Heat Rating Current		Saturation Current	
	@1MHz		Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	-	mΩ		A		A	
Symbol	L	-	DCR		Irms		Isat	
APH322520CR27MP01	0.27	±20%	7	6	15.0	16.0	15.0	16.0
APH322520CR33MP01	0.33	±20%	9	8	9.0	9.5	14.0	15.5
APH322520CR47MP01	0.47	±20%	11	9	8.5	9.5	13.0	15.0
APH322520CR68MP01	0.68	±20%	15	13	8.0	9.0	11.0	13.0
APH322520C1R0MP01	1.0	±20%	18	15	7.5	8.2	8.3	9.0
APH322520C1R5MP01	1.5	±20%	25	22	6.0	6.5	6.0	6.8
APH322520C2R2MP01	2.2	±20%	43	36	4.8	5.4	5.5	6.5
APH322520C3R3MP01	3.3	±20%	60	55	4.0	4.5	3.5	4.5
APH322520C4R7MP01	4.7	±20%	94	81	3.0	3.5	3.0	4.0
APH322520C6R8MP01	6.8	±20%	125	101	2.3	2.8	2.9	3.8

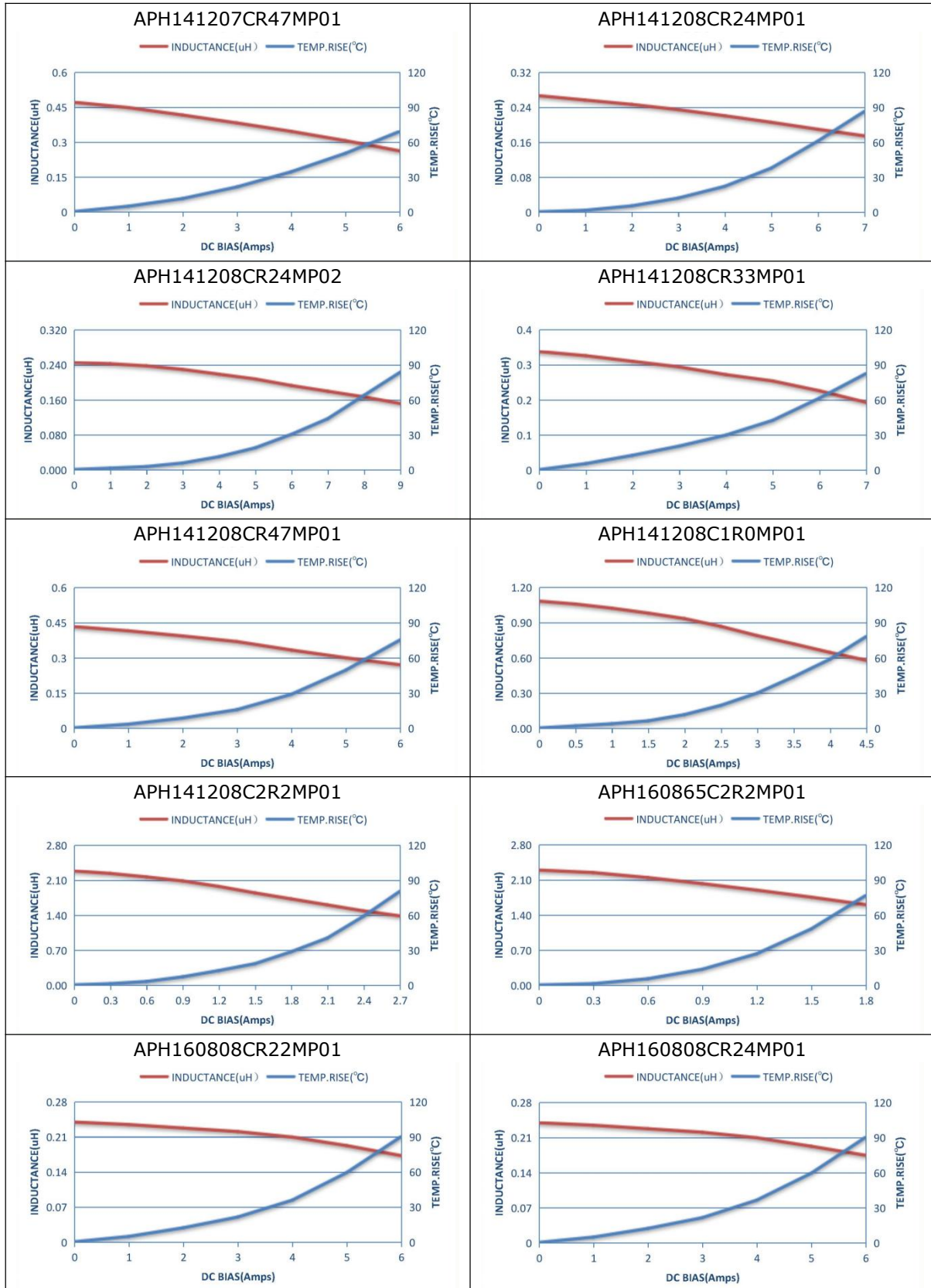
- All test data is referenced to 25 °C ambient.
- Test Condition: 1MHz, 1.0Vrms.
- Irms: DC current (A) that will cause an approximate ΔT of 40 °C.
- Isat: DC current (A) that will cause L0 to drop approximately 30%.
- The part temperature (ambient + temp rise) should not exceed 125 under °C the worst 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.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

CURRENT CHARACTERISTIC



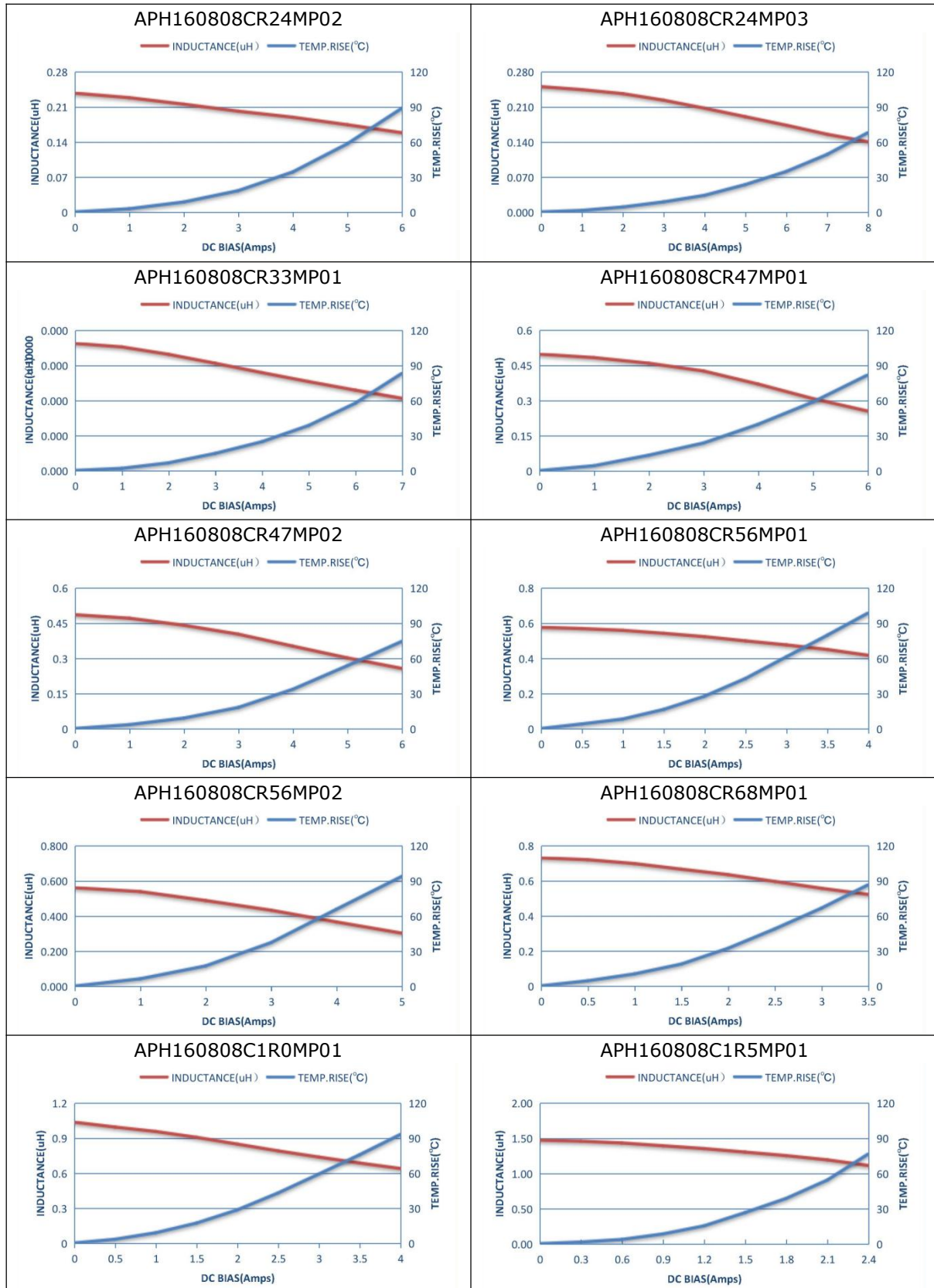
Mimi Molded SMD Power Inductors - APH-C Series

CURRENT CHARACTERISTIC



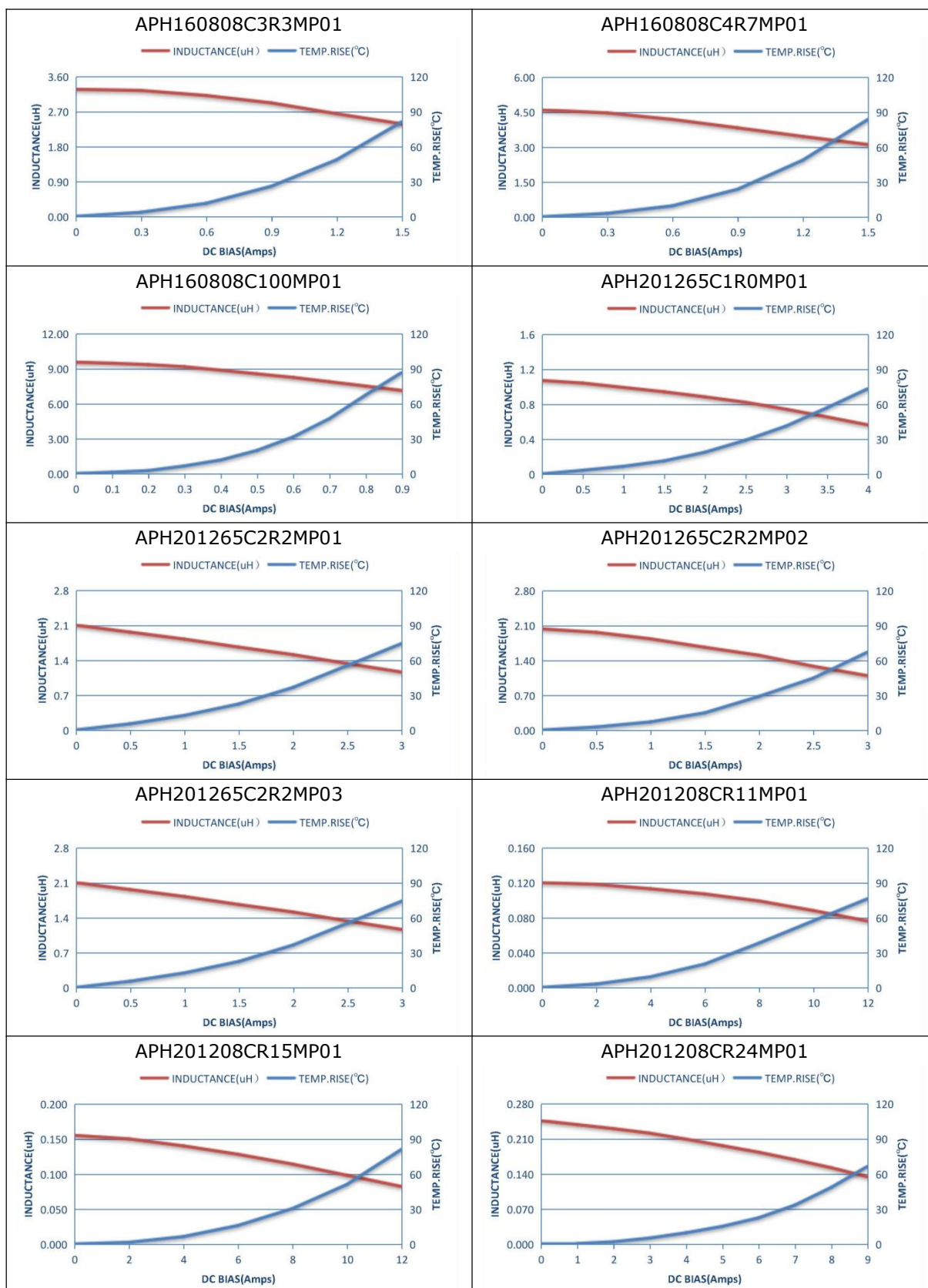
Mimi Molded SMD Power Inductors - APH-C Series

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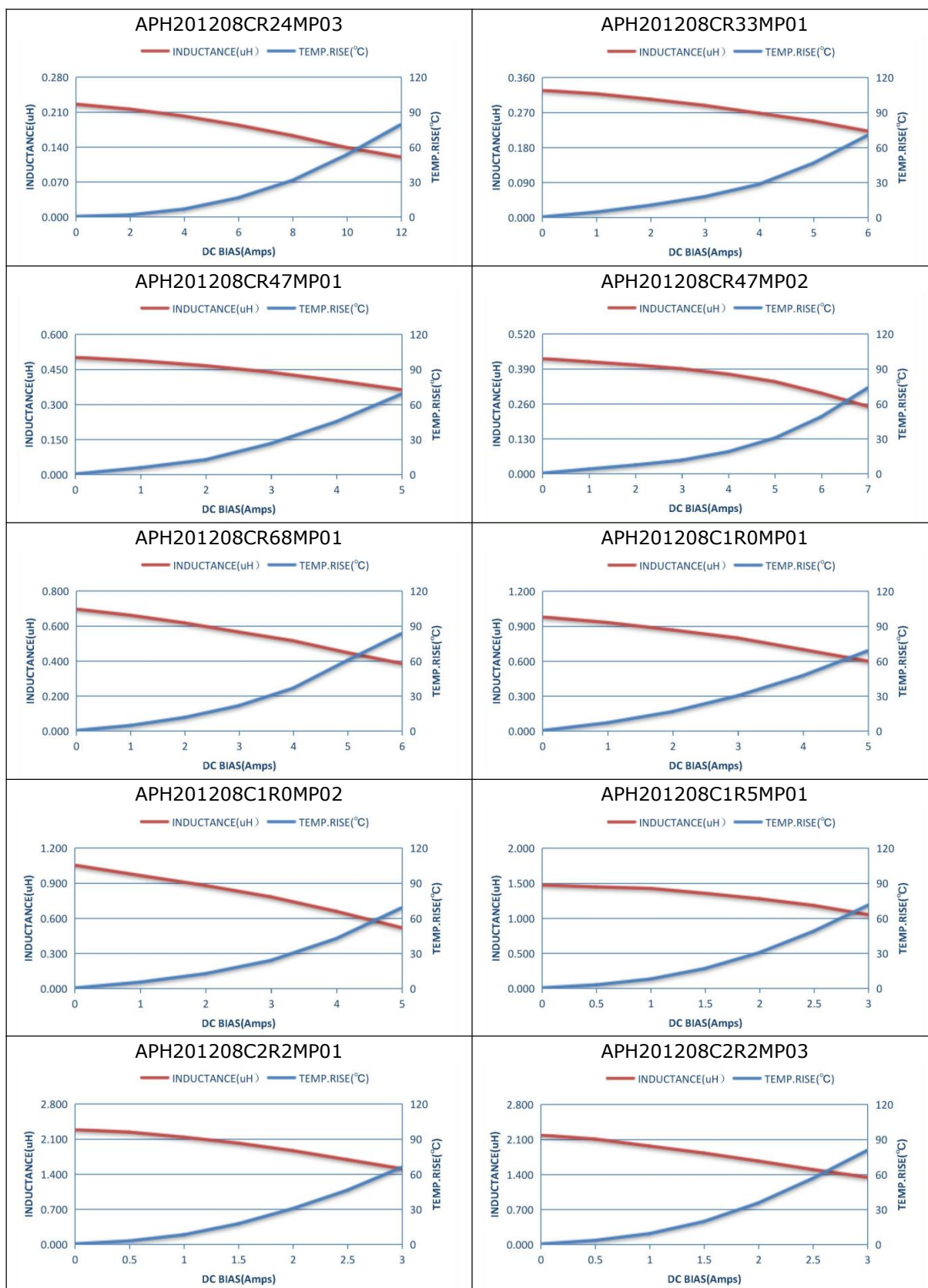
Mimi Molded SMD Power Inductors - APH-C Series

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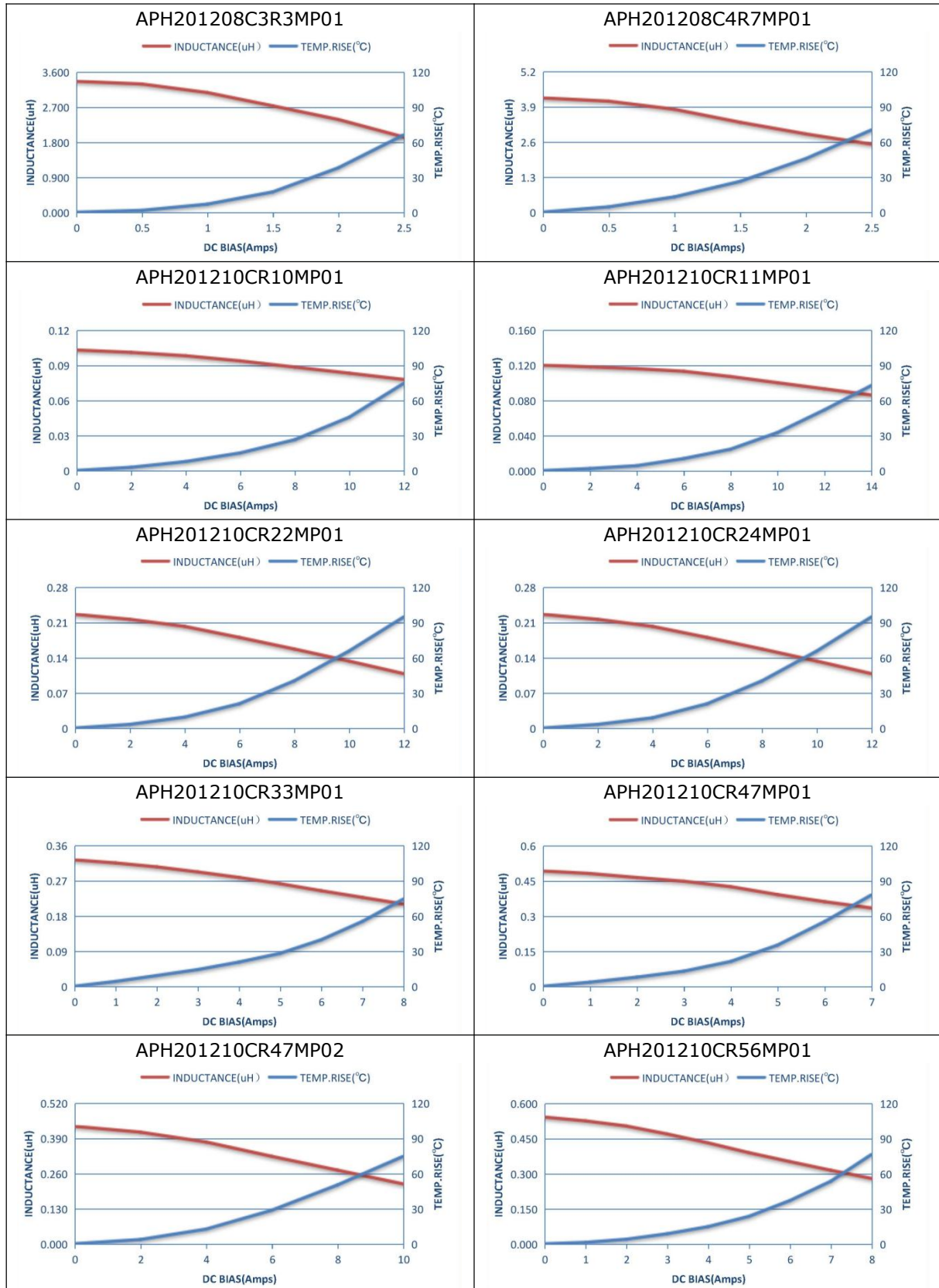
Mimi Molded SMD Power Inductors - APH-C Series

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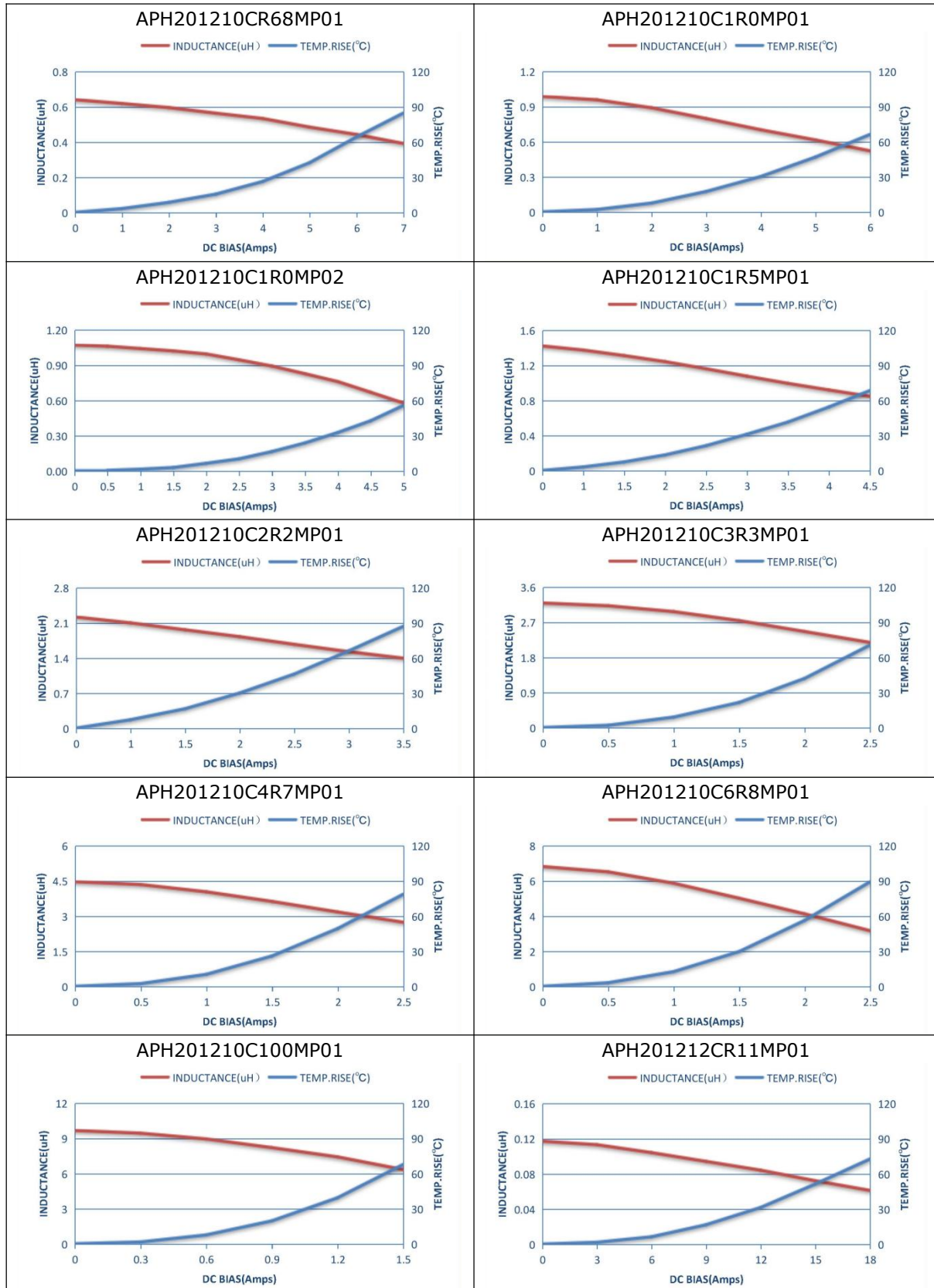
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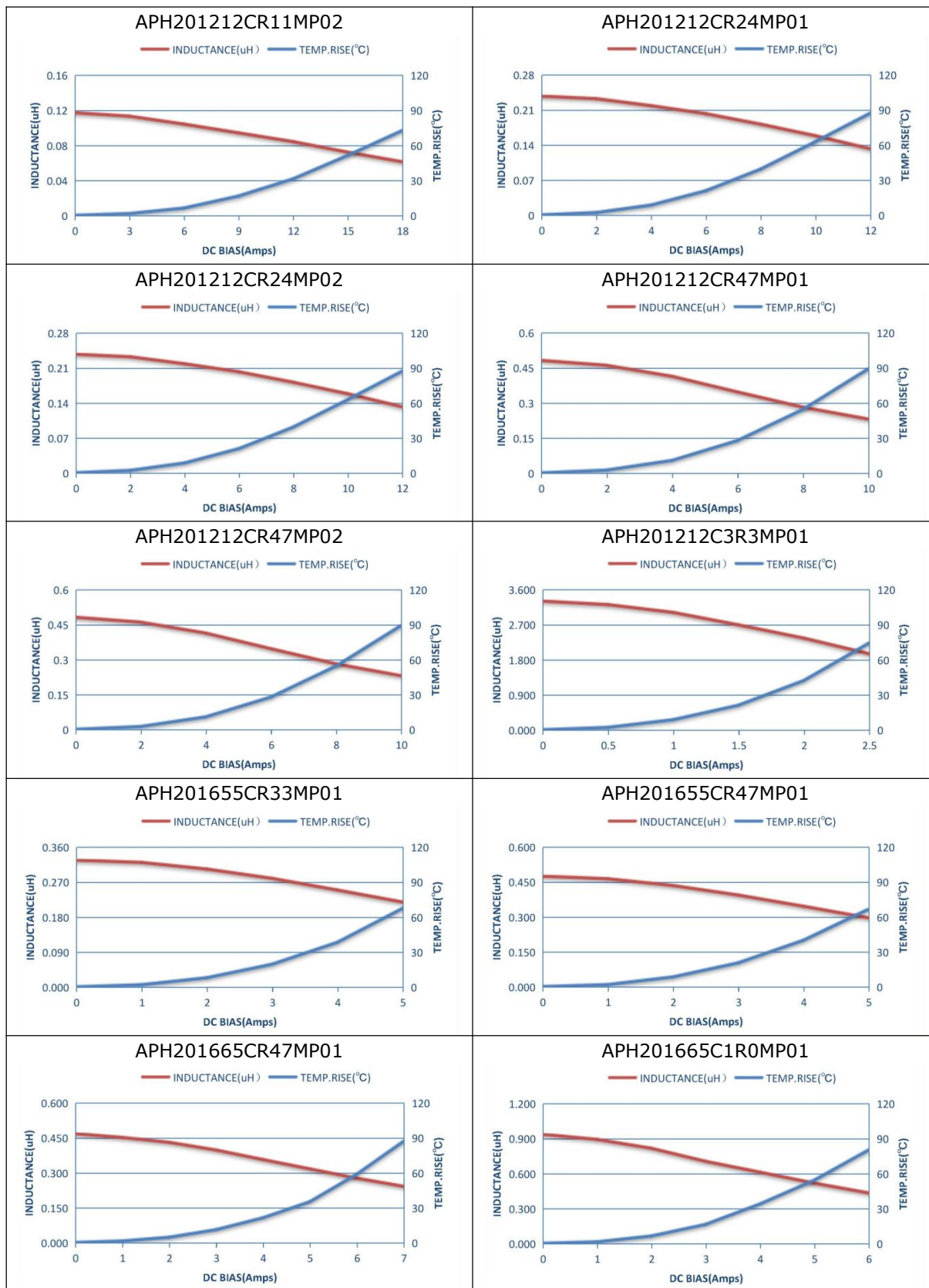
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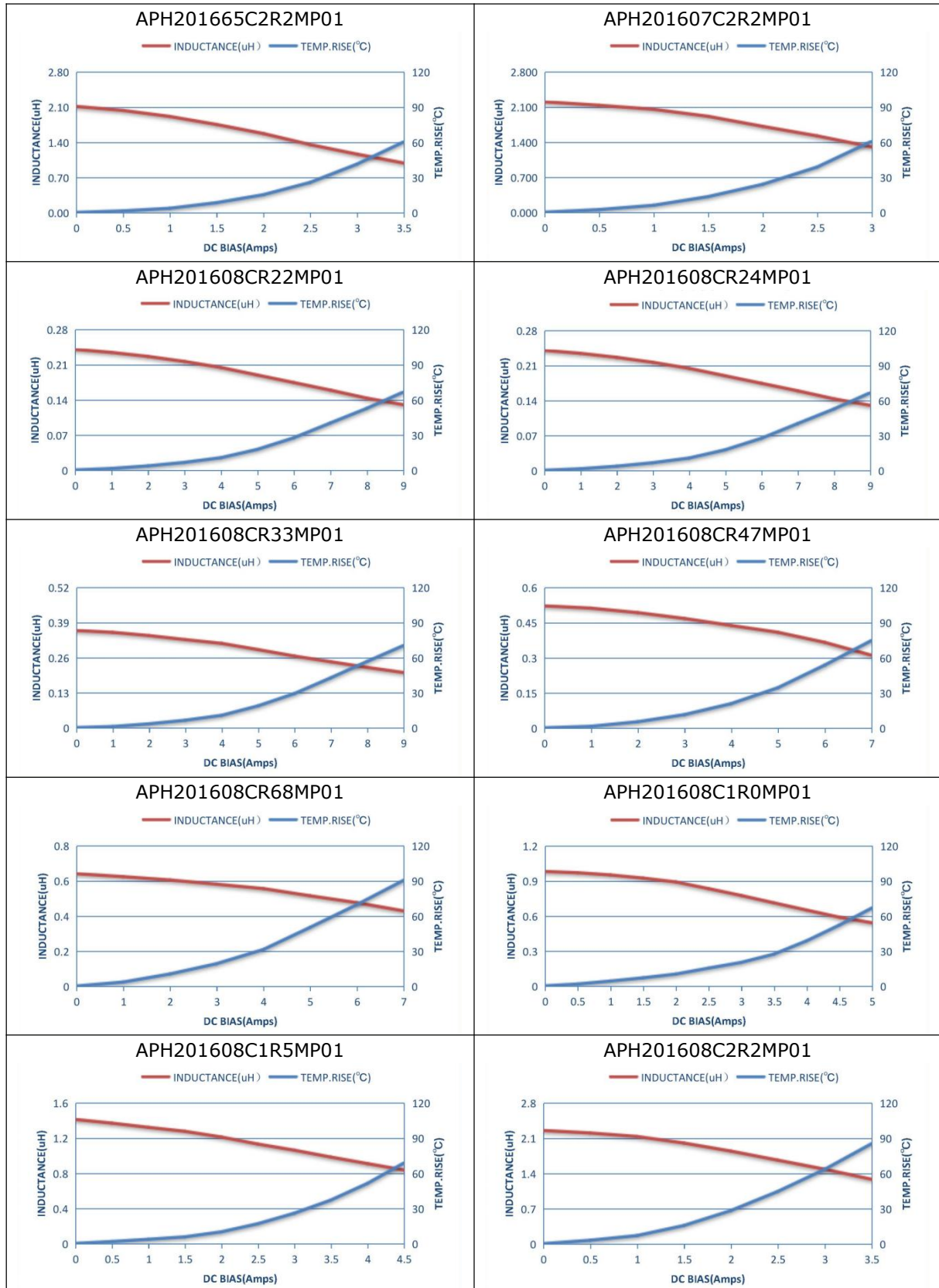
Mimi Molded SMD Power Inductors - APH-C Series

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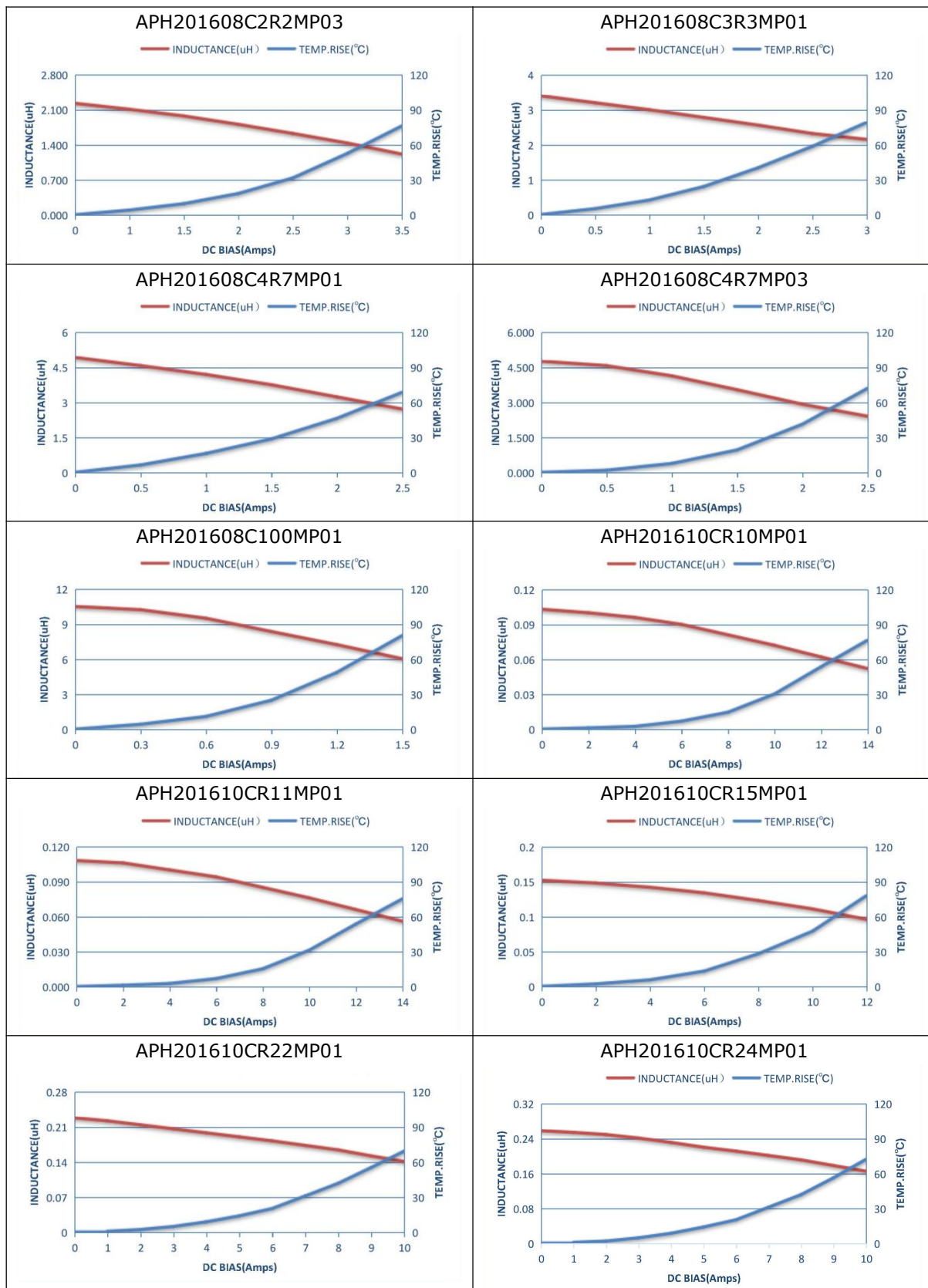
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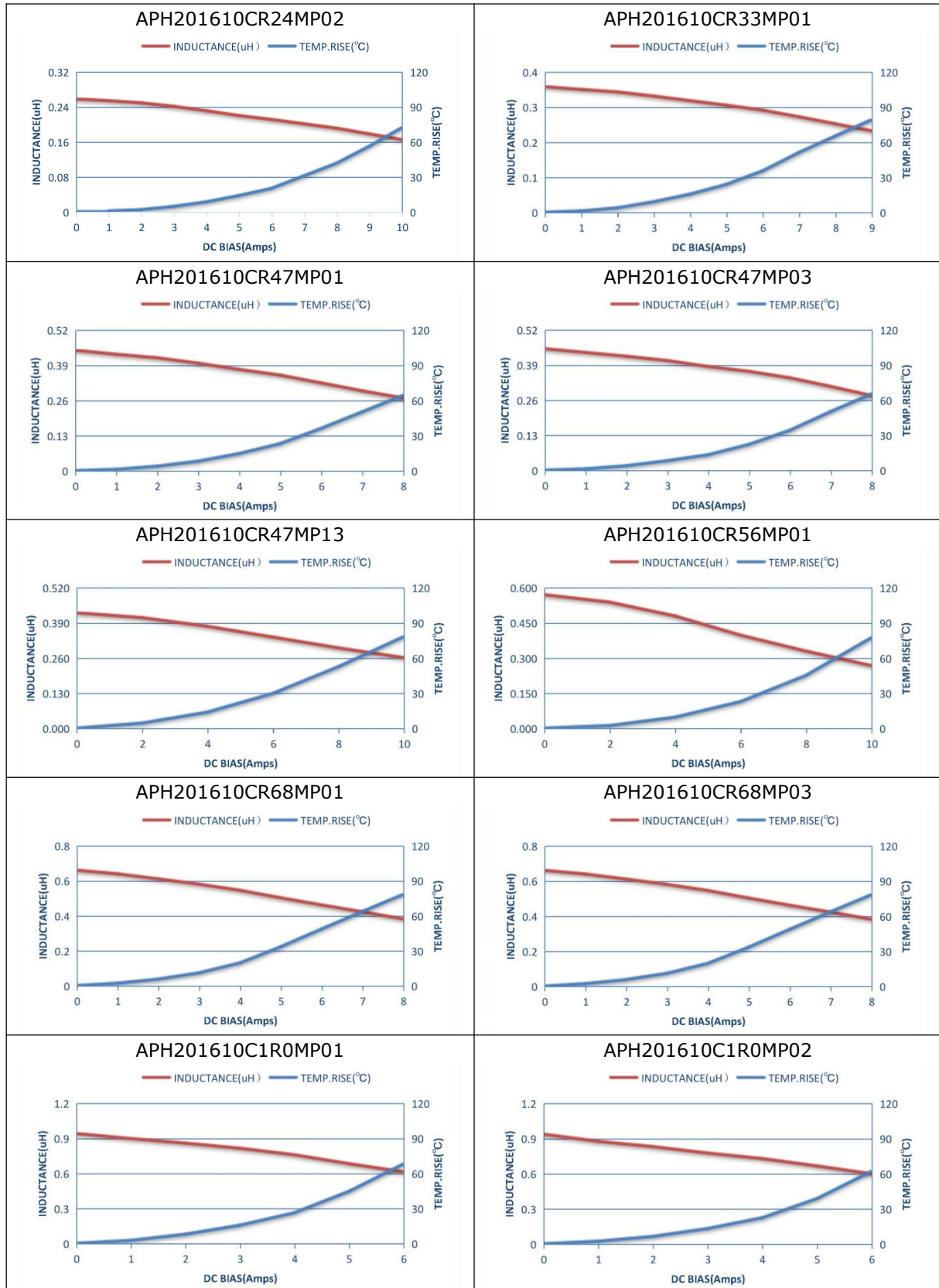
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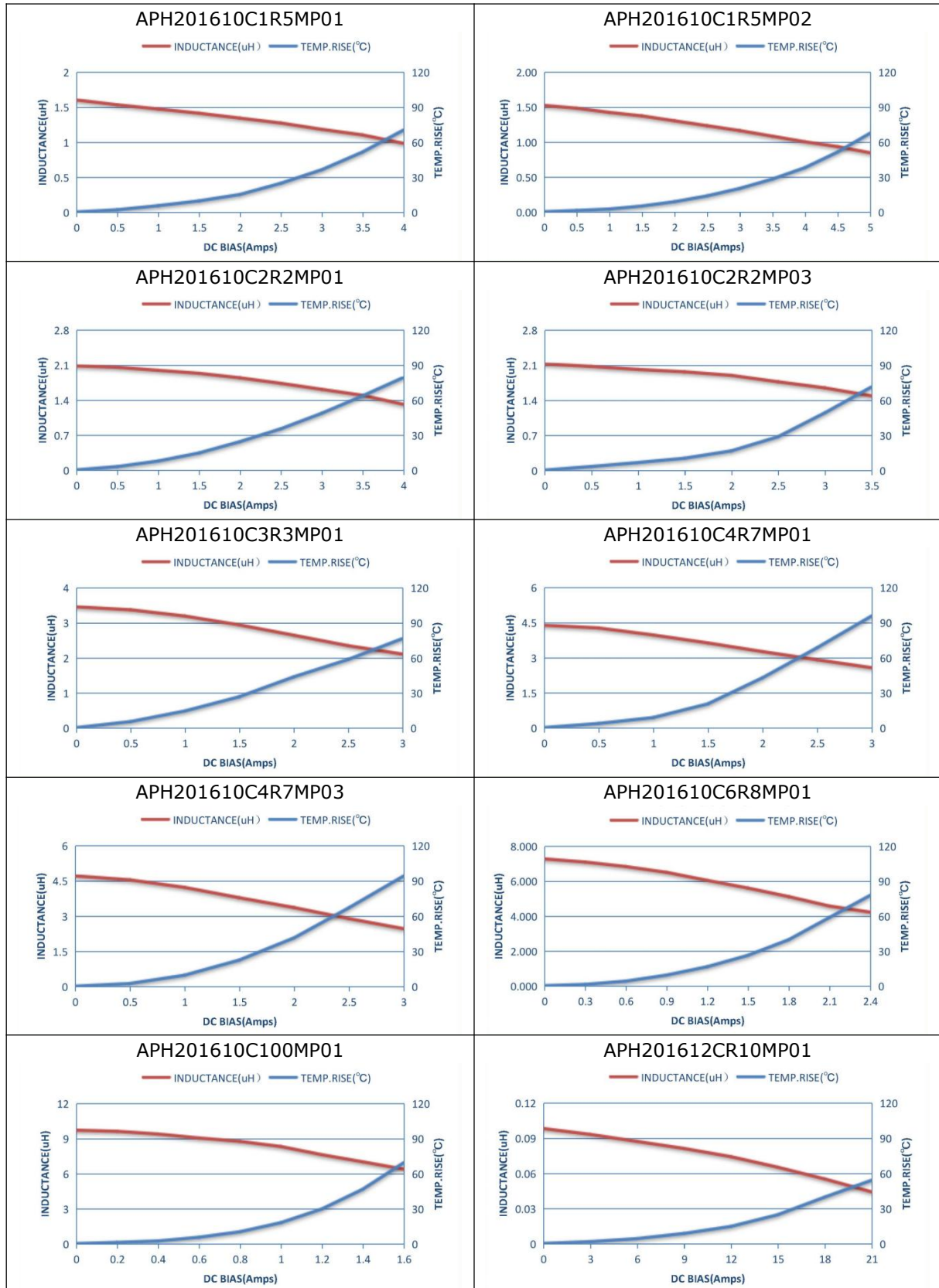
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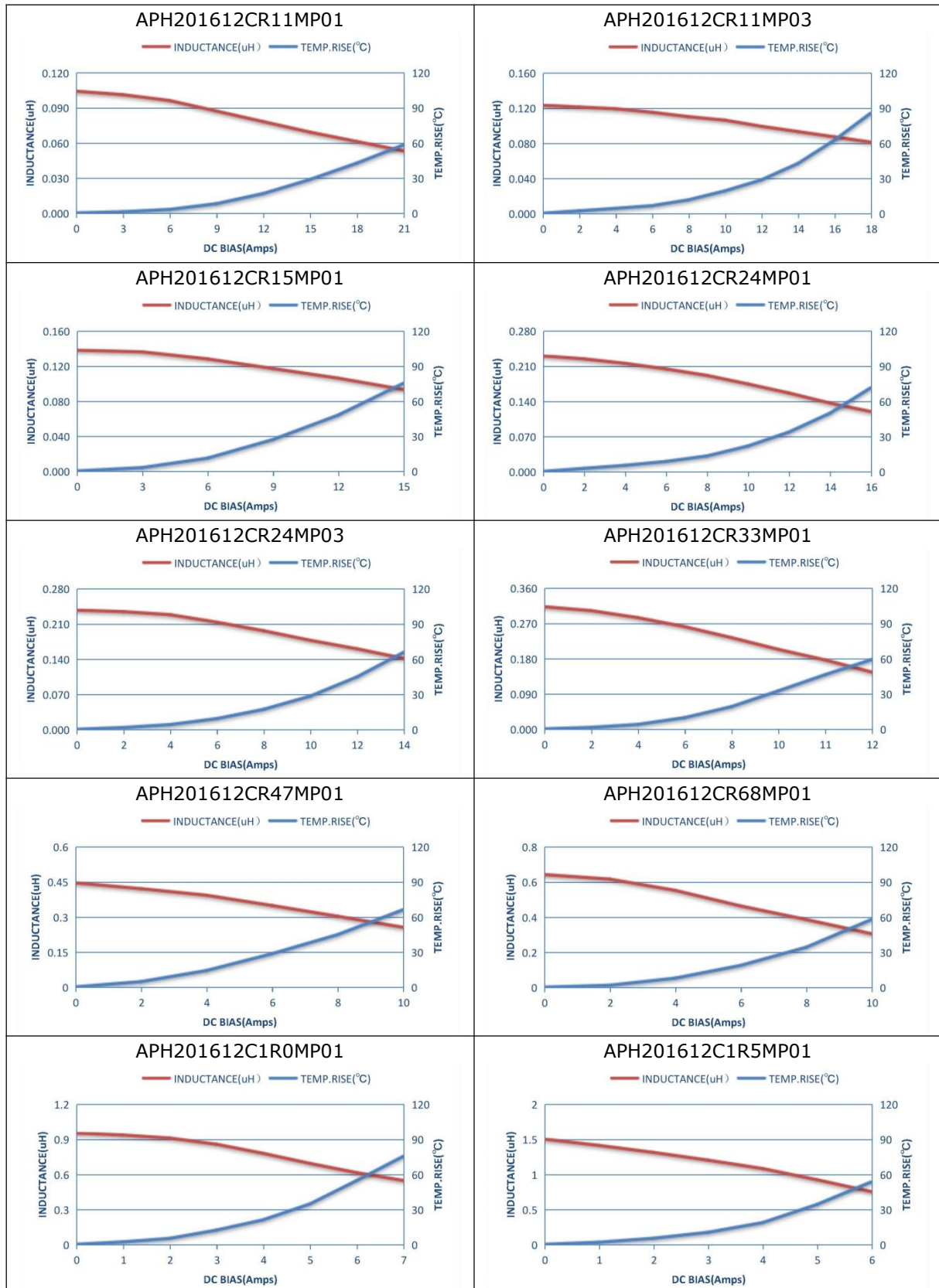
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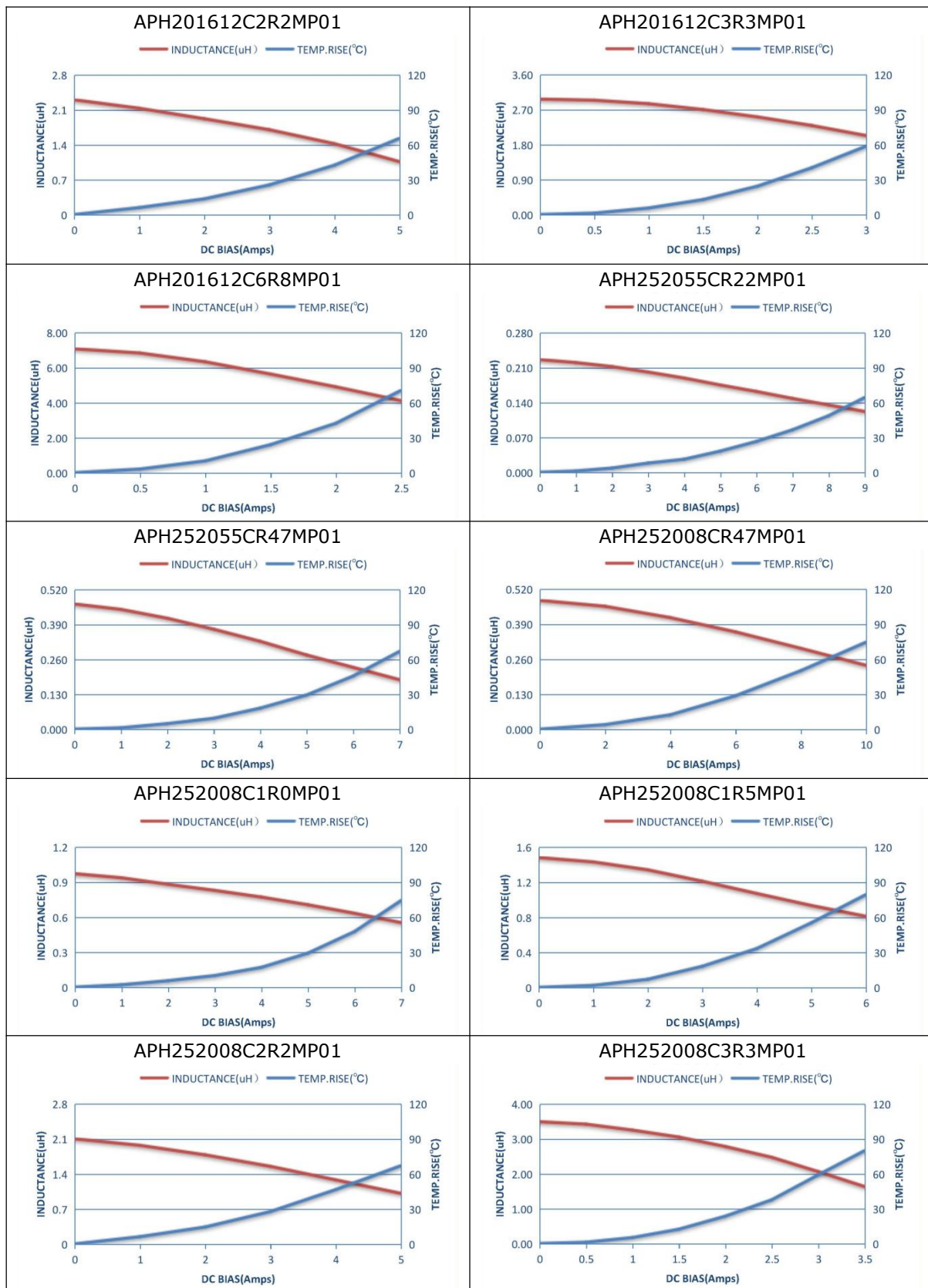
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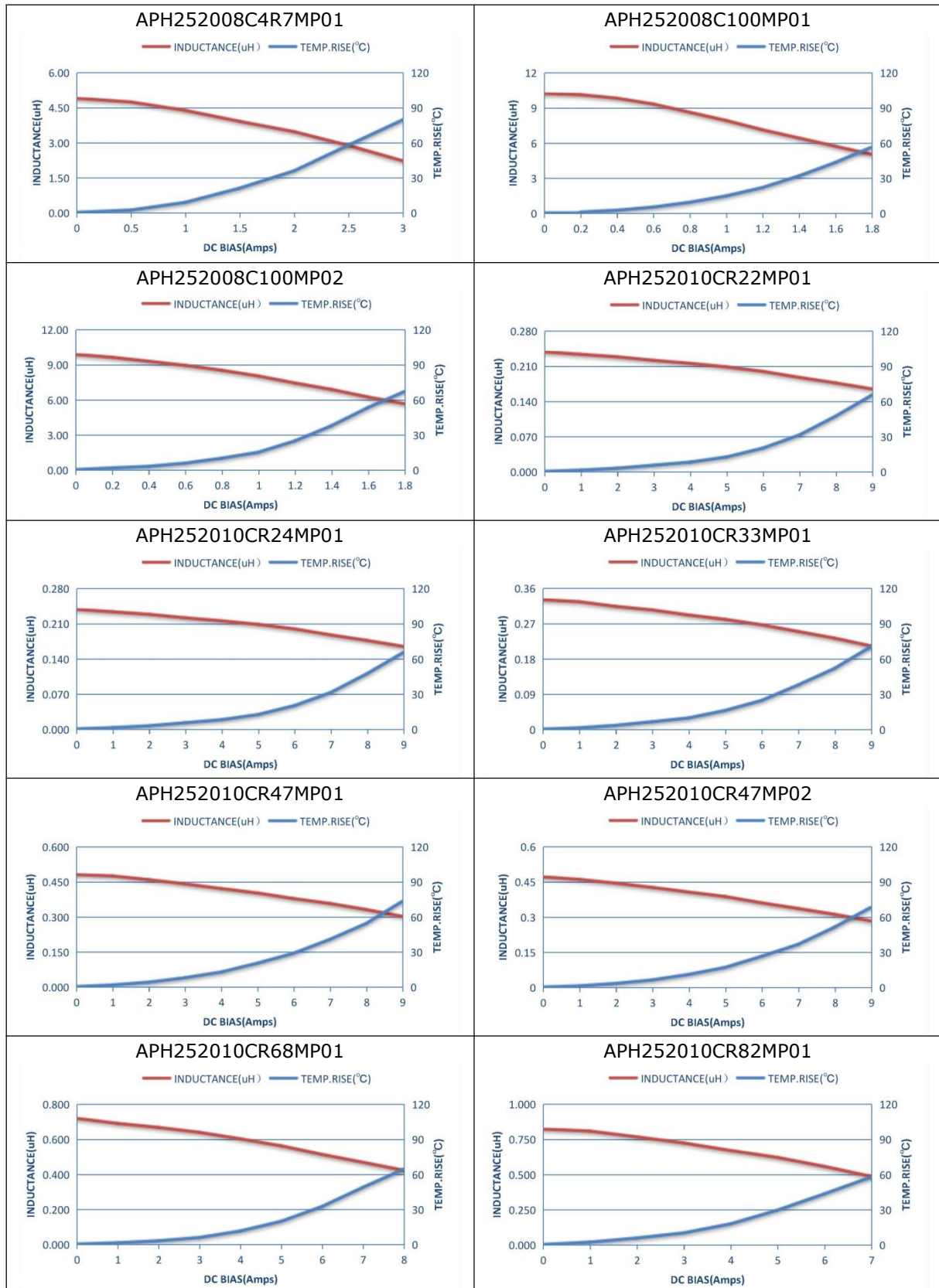
Mimi Molded SMD Power Inductors - APH-C Series

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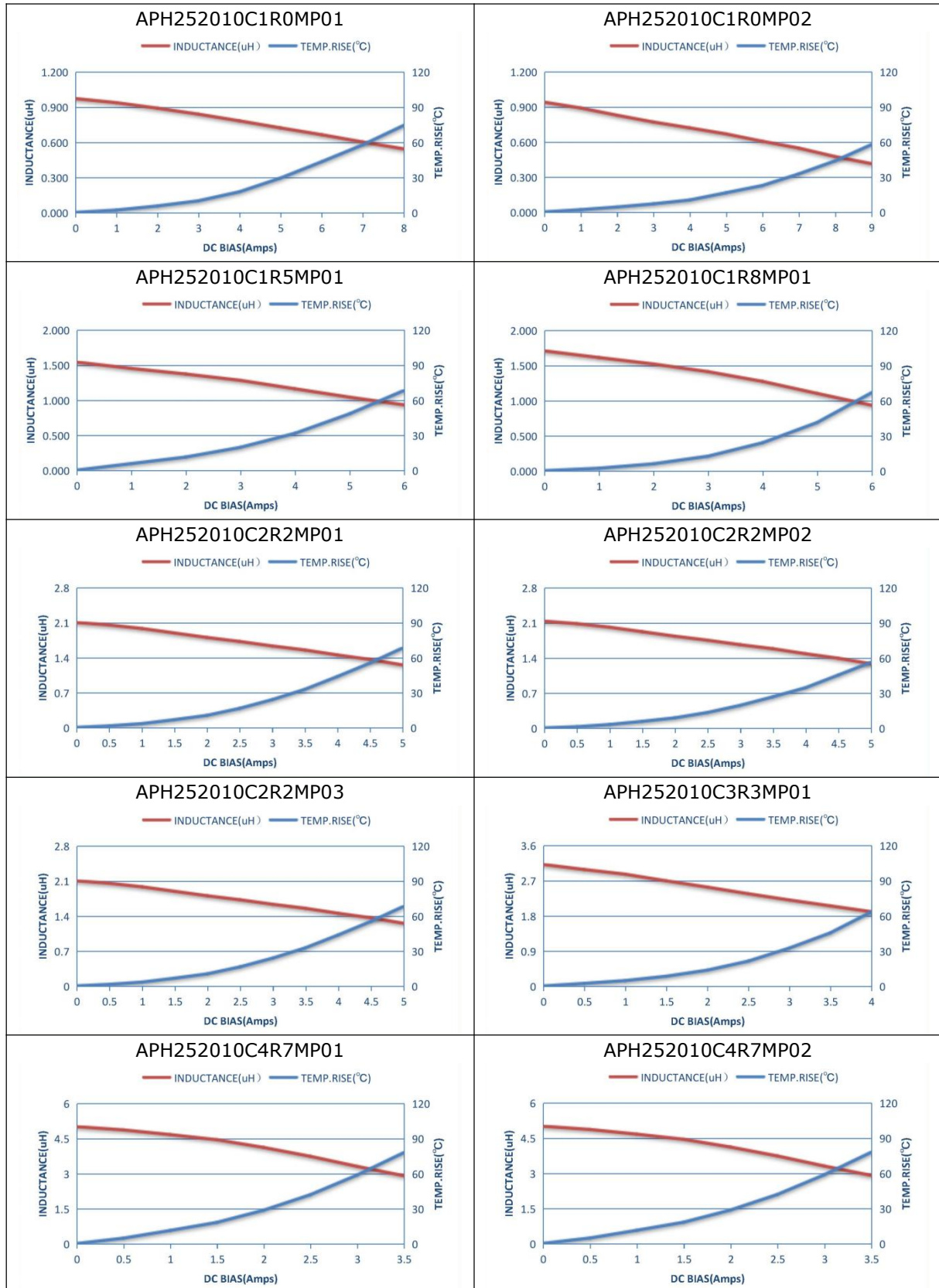
Mimi Molded SMD Power Inductors - APH-C Series

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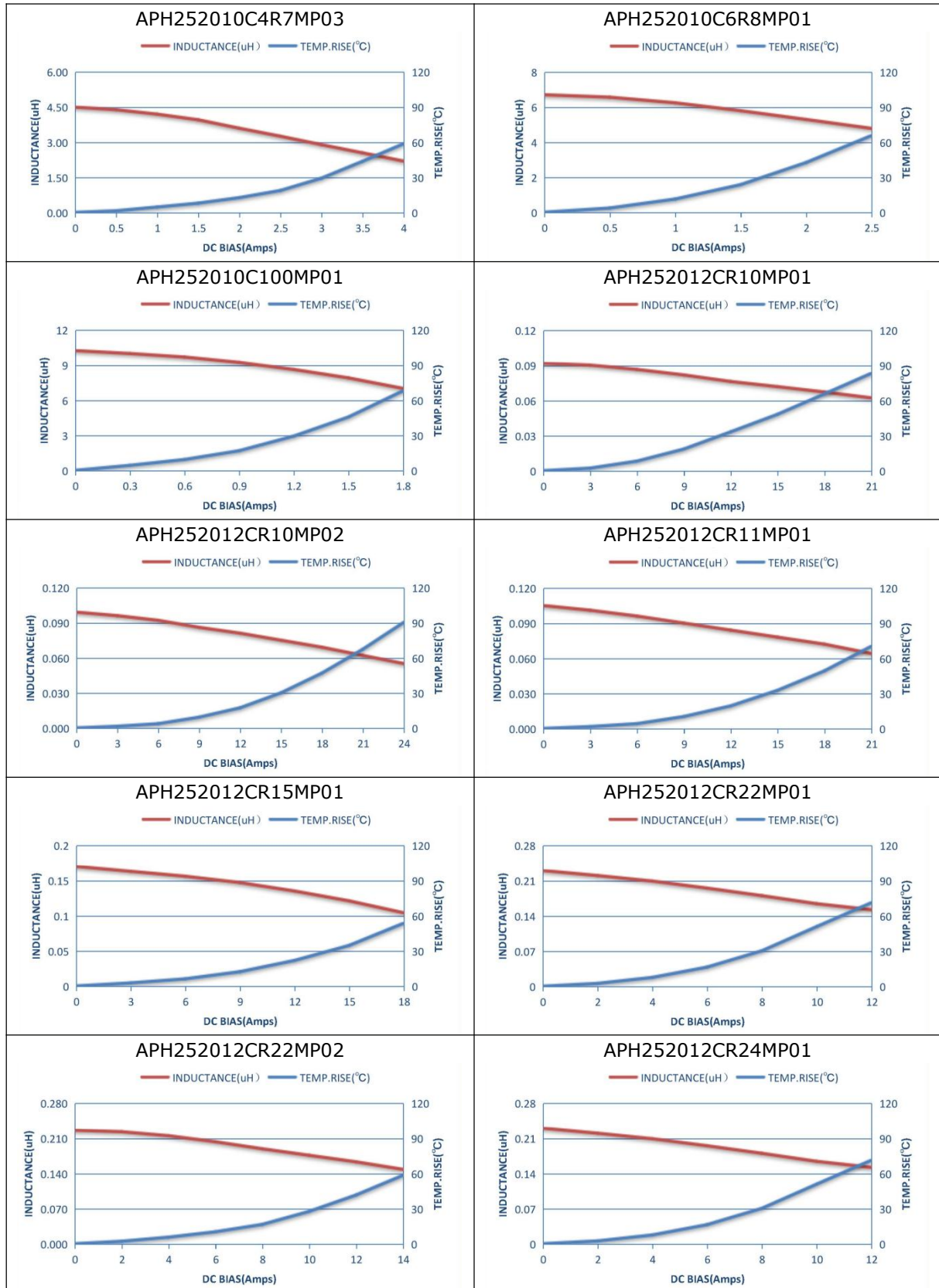
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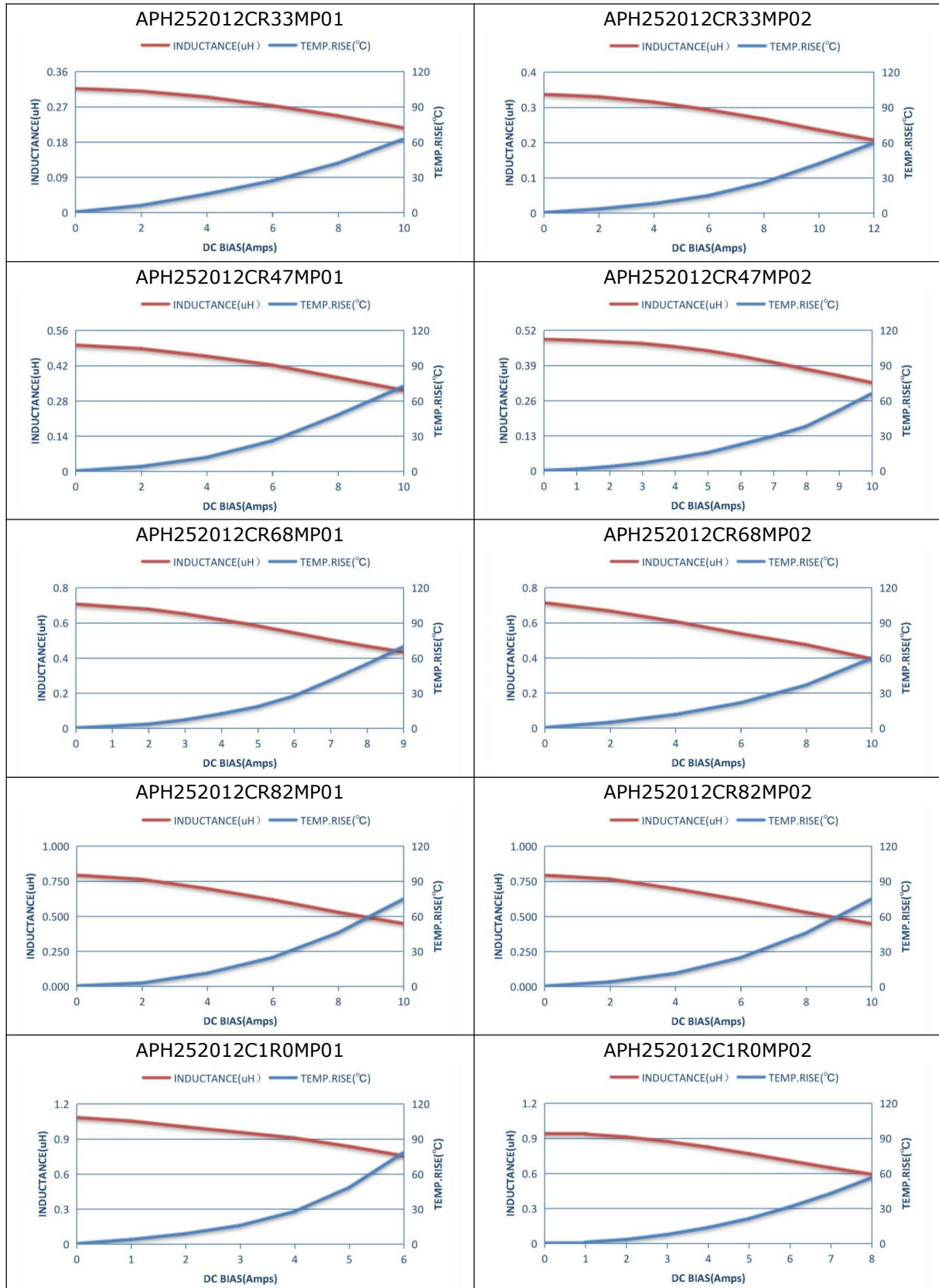
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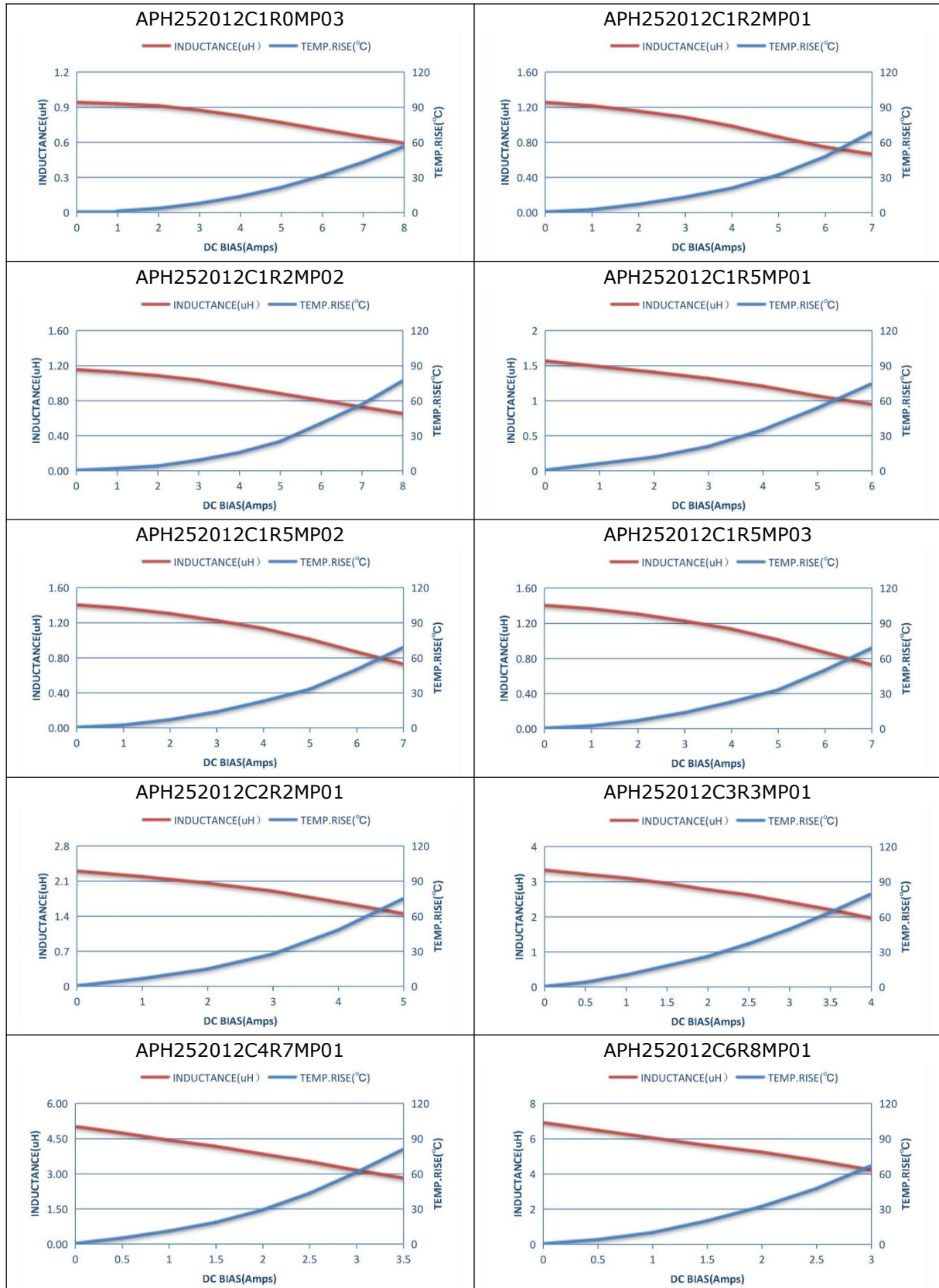
Mimi Molded SMD Power Inductors - APH-C Series

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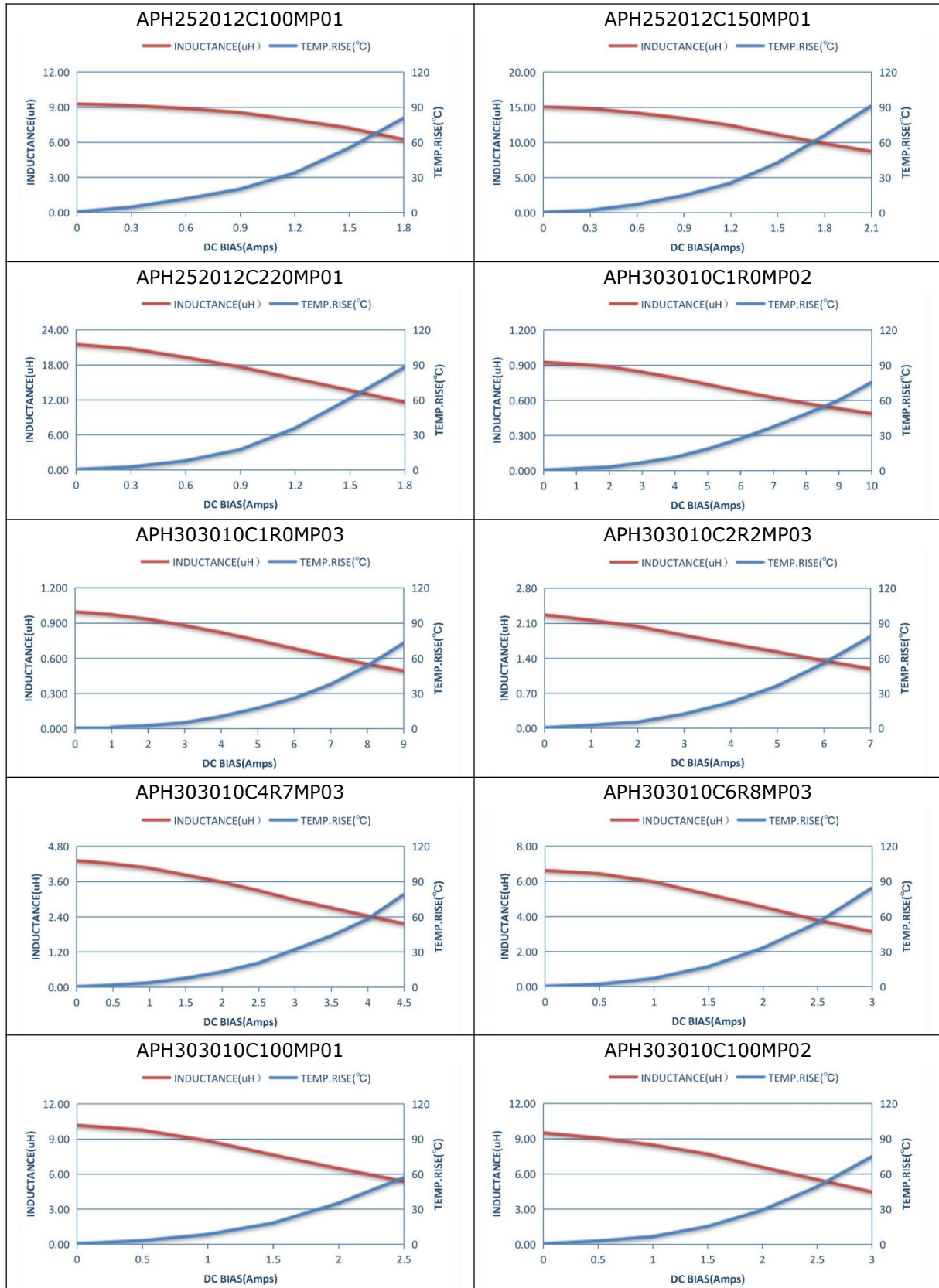
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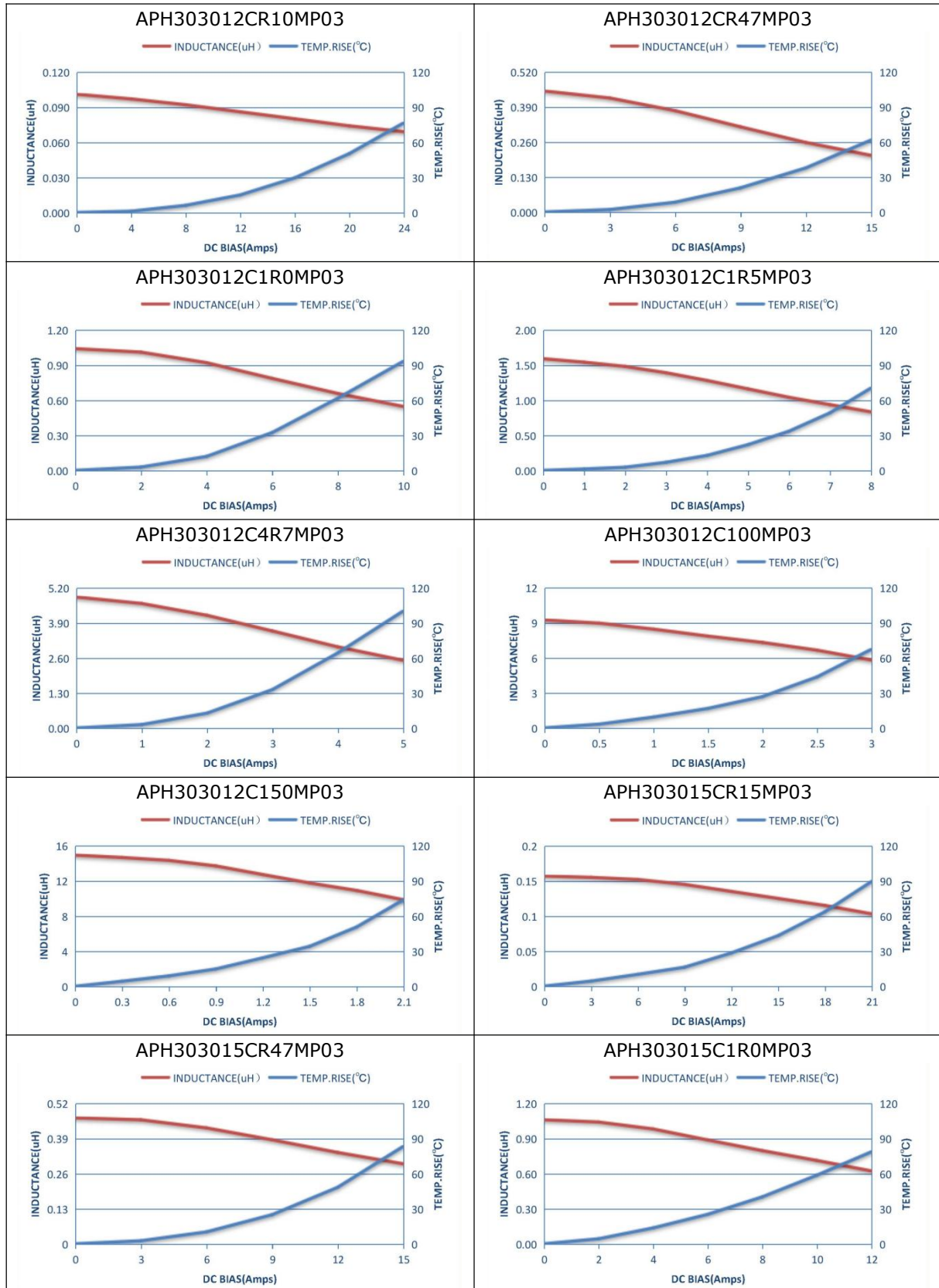
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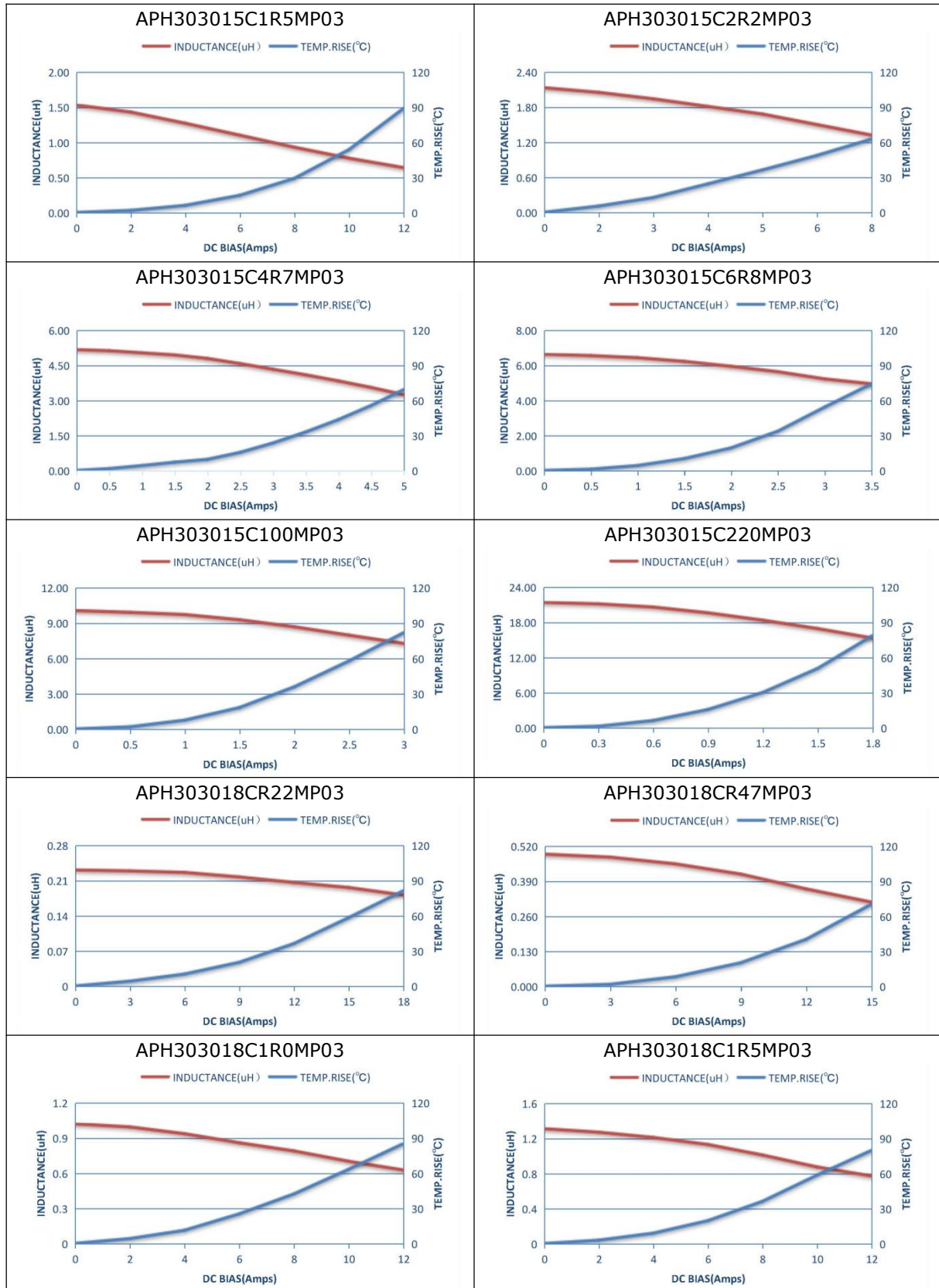
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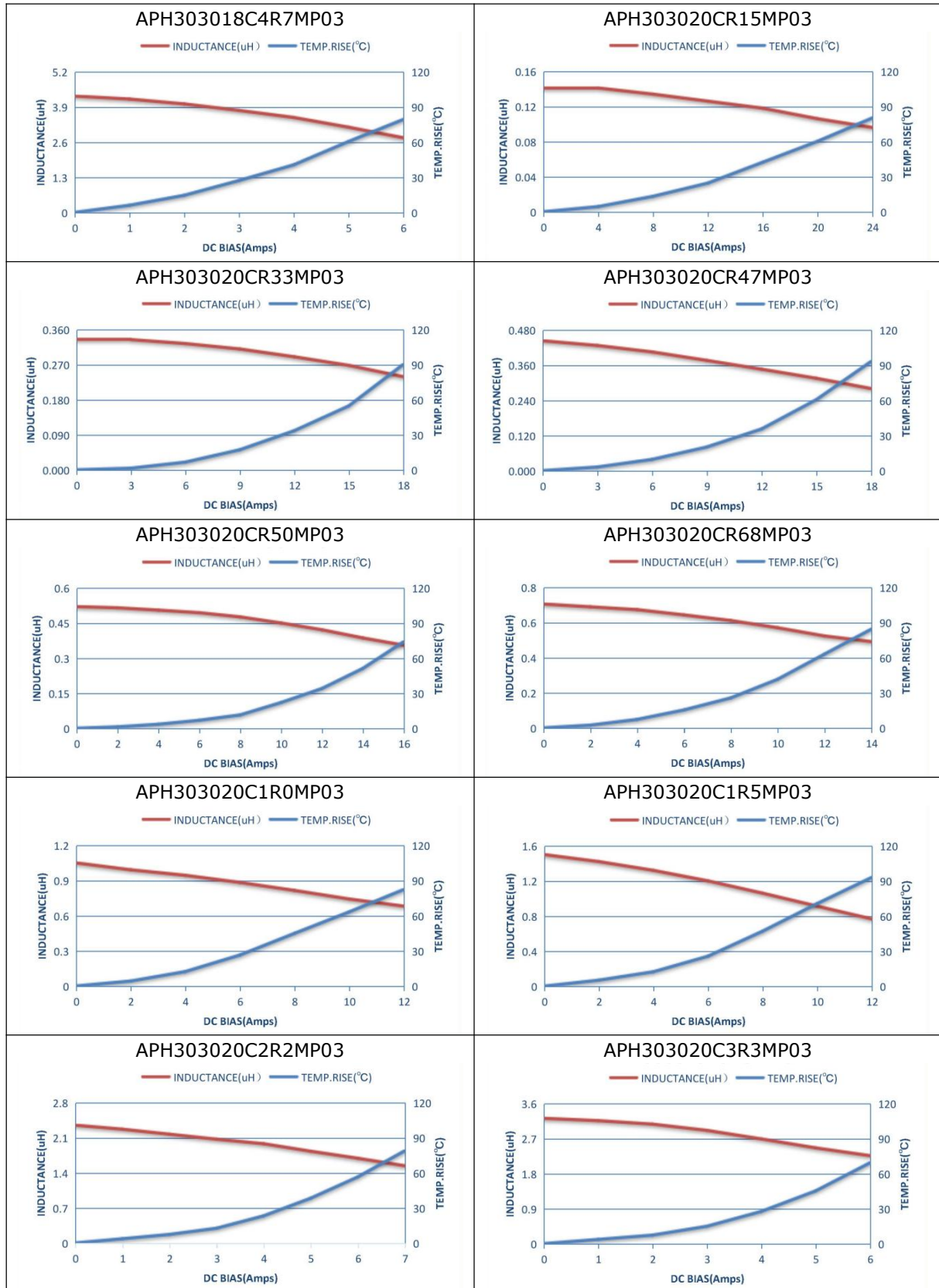
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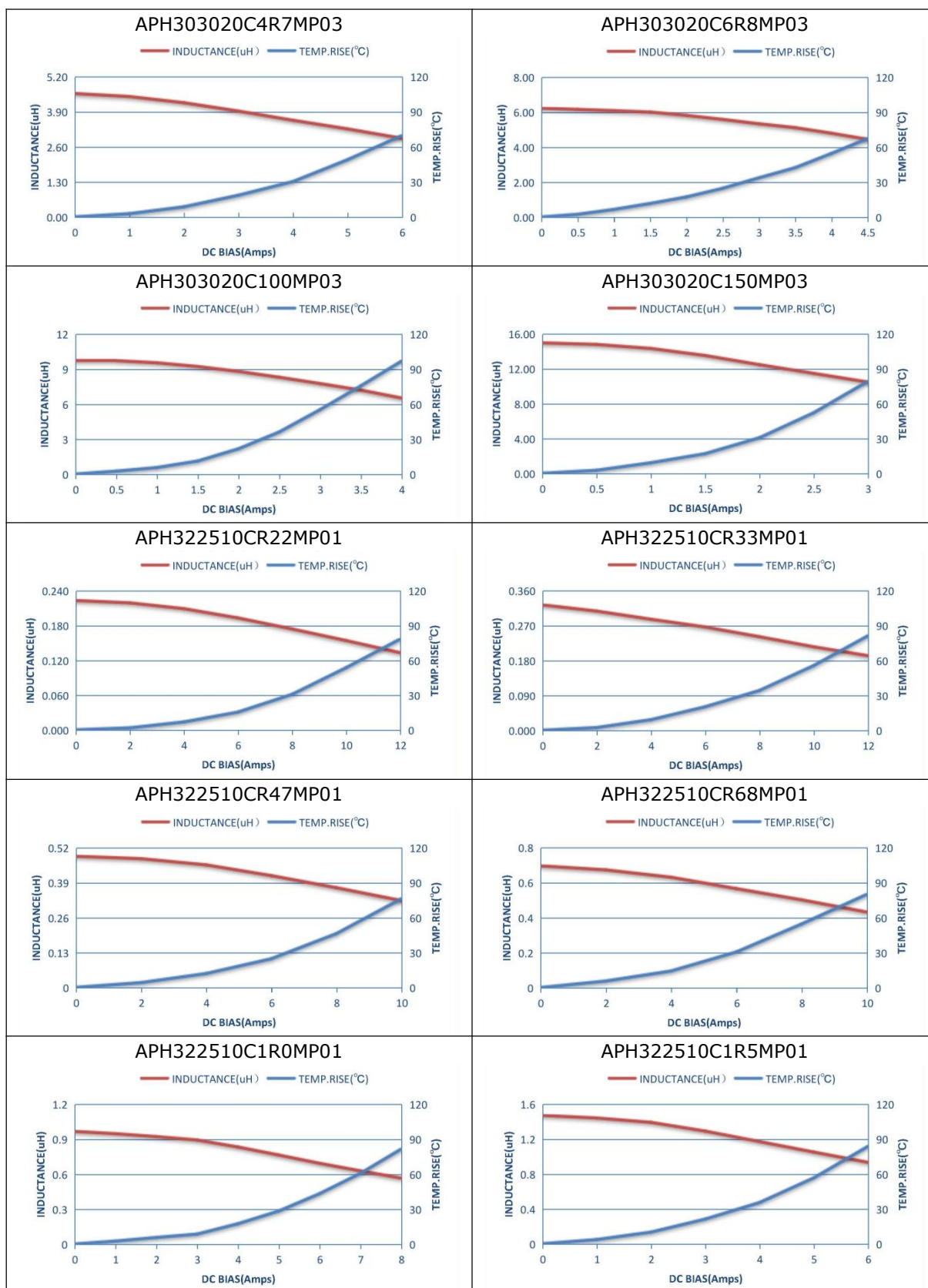
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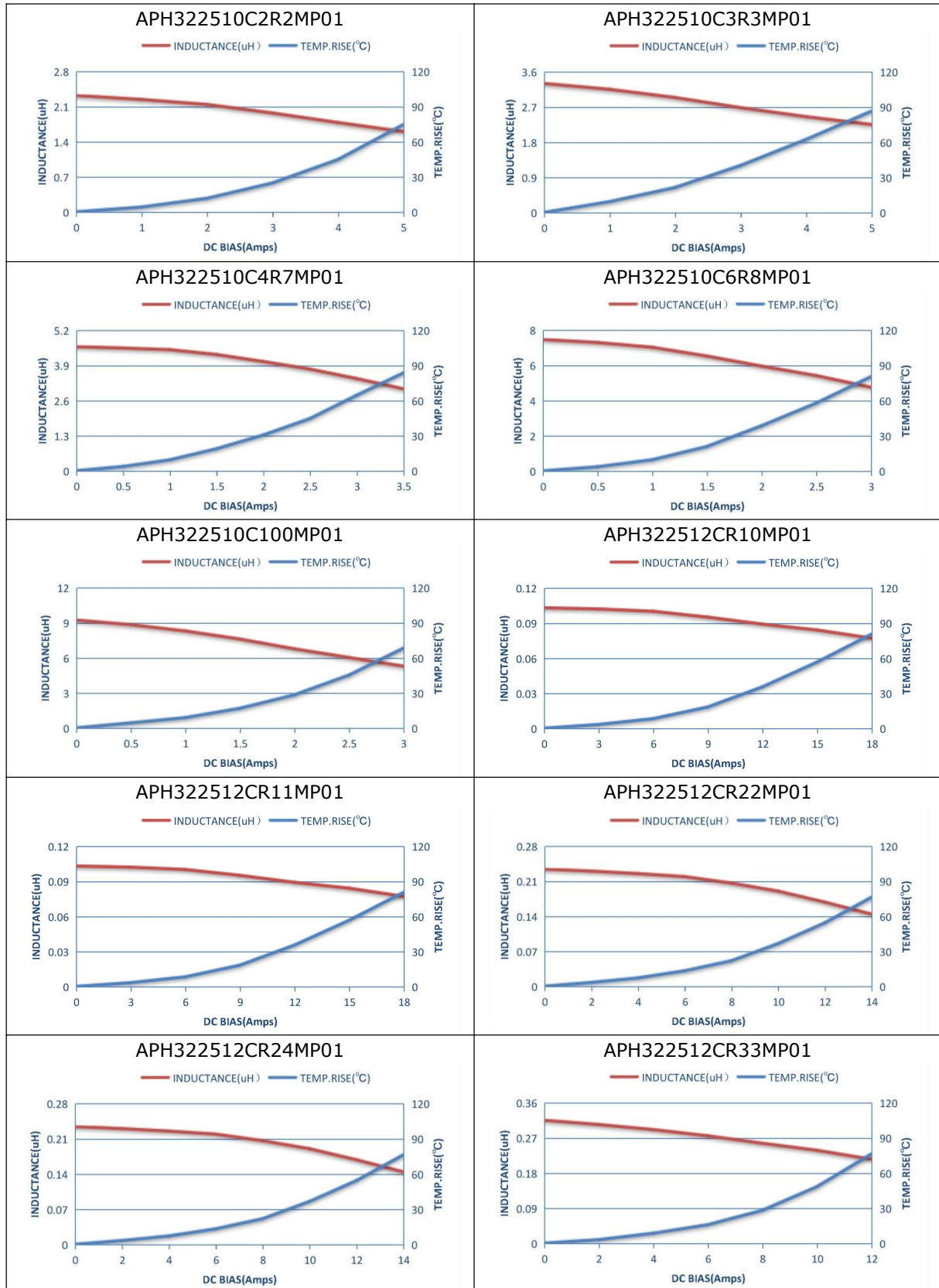
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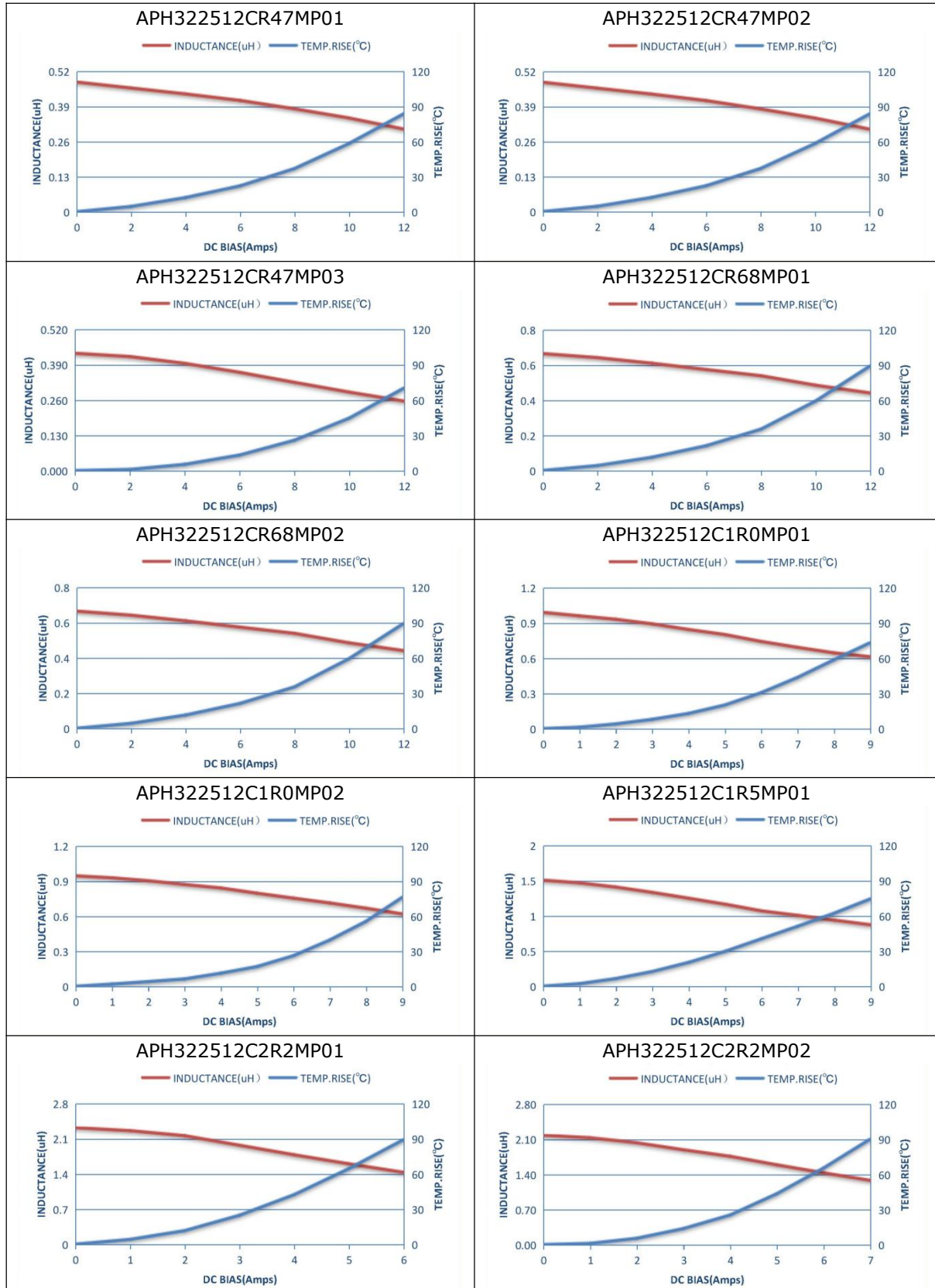
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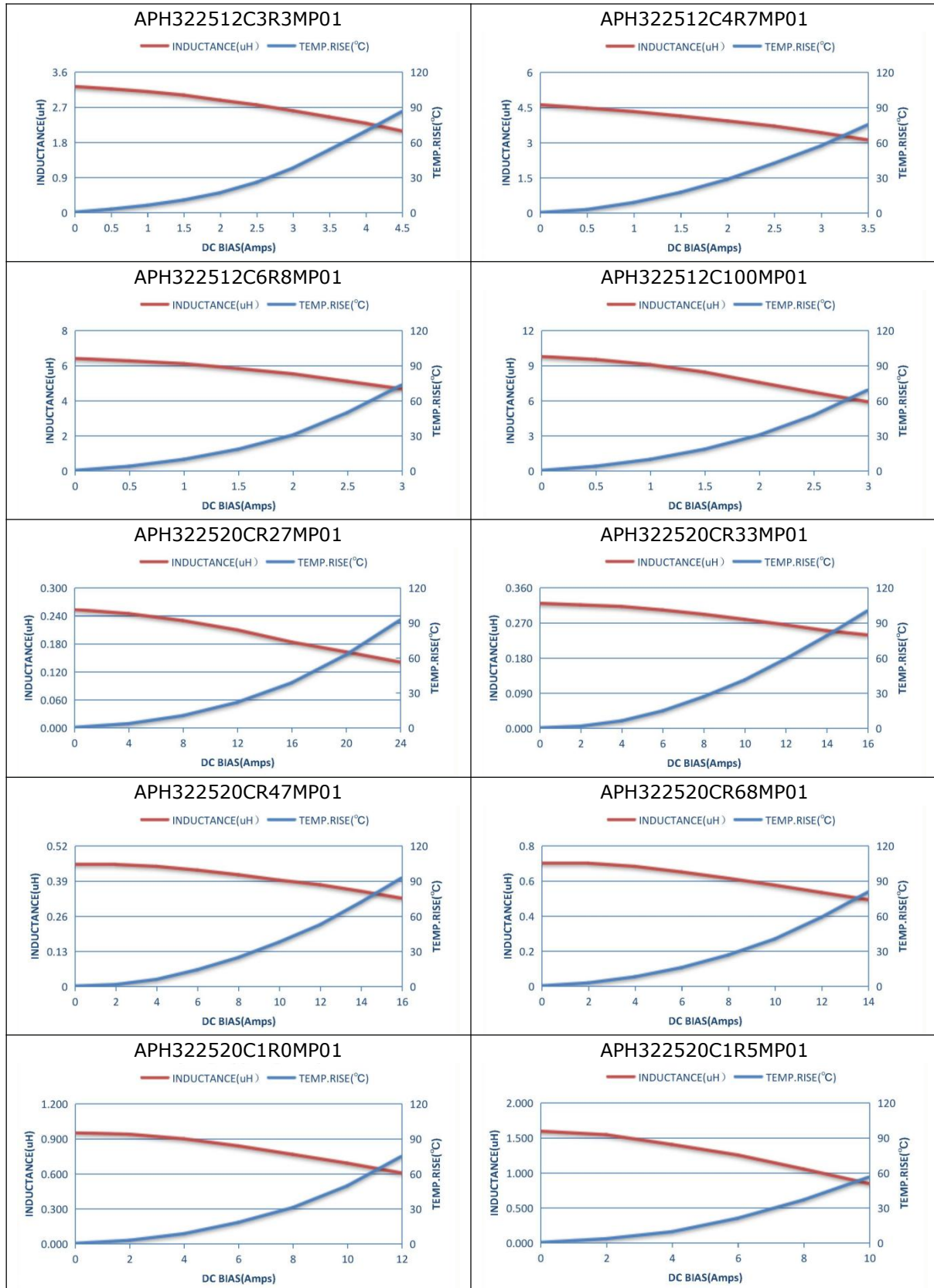
Mimi Molded SMD Power Inductors - APH-C Series

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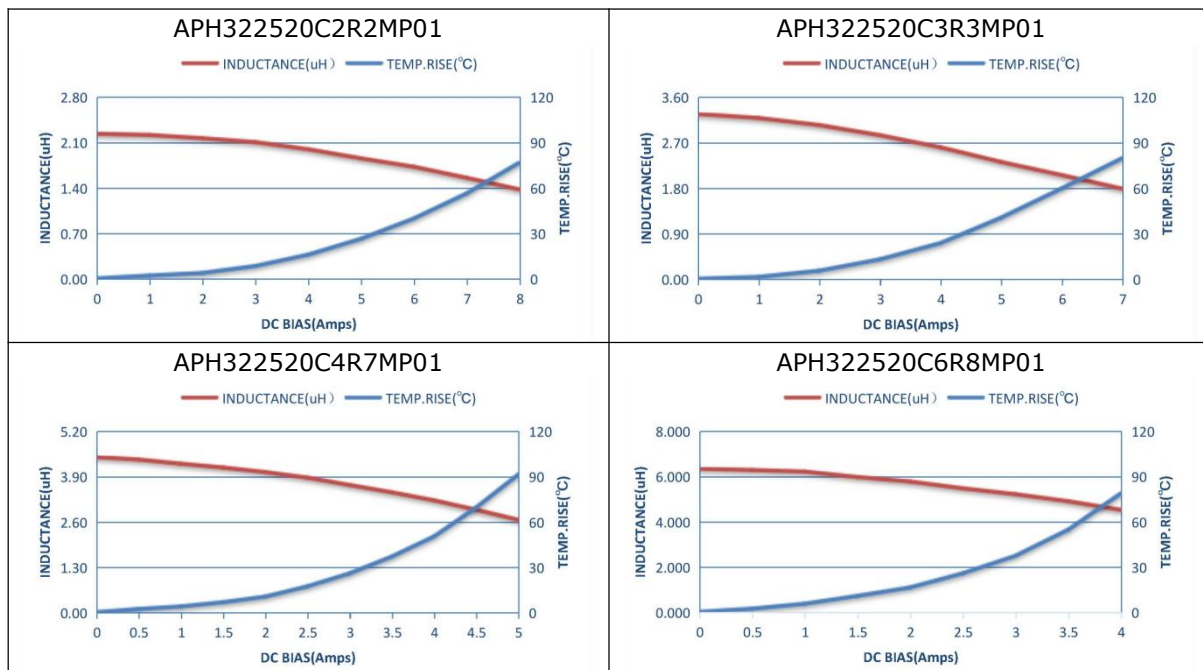
Mimi Molded SMD Power Inductors - APH-C Series

CURRENT CHARACTERISTIC



Mimi Molded SMD Power Inductors - APH-C Series

CURRENT CHARACTERISTIC



RELIABILITY

Item	Requirements	Test Methods and Remarks								
Insulation Resistance	$\geq 100M\Omega$	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 with 0.3mm solder. And then aplombelectrode way plus tax X N for (10±1) seconds. <table><tr><td>series</td><td>"X" N</td></tr><tr><td>1008</td><td>6</td></tr><tr><td>1210~1608</td><td>8</td></tr><tr><td>2012</td><td>12</td></tr></table>	series	"X" N	1008	6	1210~1608	8	2012	12
series	"X" N									
1008	6									
1210~1608	8									
2012	12									
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 case deformation or change in appearance. 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.								

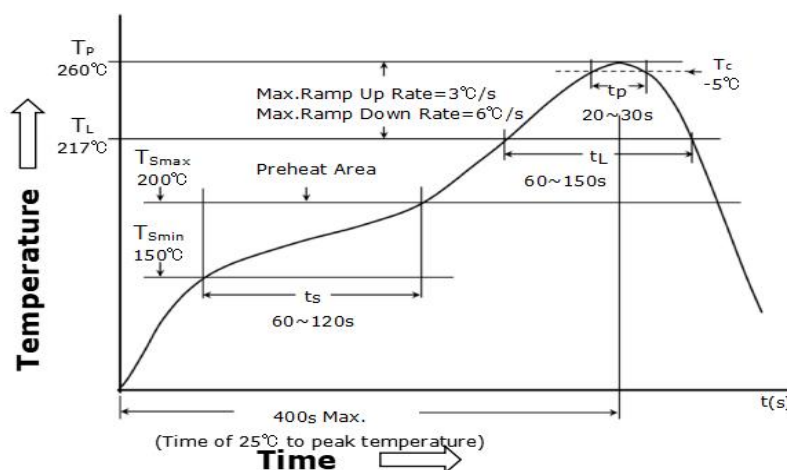
Mimi Molded SMD Power Inductors - APH-C Series

RELIABILITY

Item	Requirements	Test Methods and Remarks
Temperature characteristic	Inductance change Pc-b,Pc-d: Within $\pm 10\%$	a: $+20^{\circ}\text{C}$ (30~45) $\rightarrow$ b: -40°C (30~45) $\rightarrow$ c: $+20^{\circ}\text{C}$ (30~45) $\rightarrow$ d: $+125^{\circ}\text{C}$ (30~45) $\rightarrow$ e: $+20^{\circ}\text{C}$ (30~45) $P_{c-b} = \frac{L_b - L_c}{L_c} \times 100\%$; $P_{c-d} = \frac{L_d - L_c}{L_c} \times 100\%$
Static Humidity	No visible mechanical damage. Inductance change: Within $\pm 10\%$	Inductors shall be subjected to $(95 \pm 3)\% \text{RH}$. at $(60 \pm 2)^{\circ}\text{C}$ for (1000 ± 4) h. Placed at room temperature for 2 hours, within 48 hours of testing.
Life	No visible mechanical damage. Inductance change: Within $\pm 10\%$	Inductors shall be store at $(85 \pm 2)^{\circ}\text{C}$ for (1000 ± 4) hours with Irms applied. Placed at room temperature for 2 hours, within 48 hours of testing.

RELIABILITY

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



- Allowed Re-flow times : 2 times
- Remark : To avoid discoloration phenomena of chip on terminal electrodes, please use N_2 Re-flow furnace .

Note:

This series product is not applies in automotive or related products. Otherwise, we will shall not bear than the resulting all the problems of quality and responsibility.

Please be sure to request approval specifications that provide further details of the products. Kindly not that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without APV approval.