ARLITECH ELECTRONIC CORP

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Featurs

- 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.
- 100% lead (Pb) free meet RoHS2.0 and Halogen， Reach and other legal and regulatory requirements standard.

Applications

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

■ PRODUCT IDENTIFICATION

A P I M 2 0 1 6 1 0 △ △ 1 0 0 M T △

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Product
APIM

② Dimension
Length*Wide*High

③ Size Tolerance	
S	±0.2mm
D	±0.1mm

⑤ Inductance(uH)	
2R2	2.2
100	10
220	22

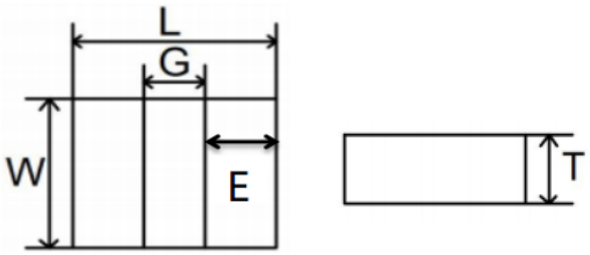
⑥ Tolerance	
M	±20%

⑧ Special product
"A~Z"

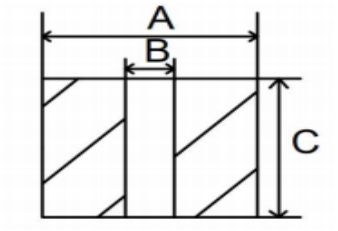
④ Coating color	
B	Black
G	Gray

⑦ Package	
T	Taping reel
B	Bulk

SHAPE & DIMENSIONS（UNIT:mm）



Recommend Land Pattern



Series	L	G	W	E	T	A	B	C
APIM121065S	1.2±0.2	0.4±0.2	1.0±0.2	0.40±0.2	0.65Max.	1.30	0.30	1.10
APIM160865S	1.6±0.2	0.6±0.2	0.8±0.2	0.50±0.2	0.65Max.	1.60	0.50	0.80
APIM160808S	1.6±0.2	0.6±0.2	0.8±0.2	0.50±0.2	0.80Max.	1.70	0.50	0.90
APIM141265S	1.4±0.2	0.5±0.2	1.2±0.2	0.45±0.2	0.65Max.	1.50	0.40	1.30
APIM141207S	1.4±0.2	0.5±0.2	1.2±0.2	0.45±0.2	0.70Max.	1.50	0.40	1.30
APIM141208S	1.4±0.2	0.5±0.2	1.2±0.2	0.45±0.2	0.80Max.	1.50	0.40	1.30
APIM201265S	2.0±0.2	0.6±0.2	1.2±0.2	0.70±0.2	0.65Max.	2.10	0.50	1.30
APIM201208S	2.0±0.2	0.6±0.2	1.2±0.2	0.70±0.2	0.80Max.	2.10	0.50	1.30
APIM201210S	2.0±0.2	0.6±0.2	1.2±0.2	0.70±0.2	1.00Max.	2.10	0.50	1.30
APIM201212S	2.0±0.2	0.6±0.2	1.2±0.2	0.70±0.2	1.20Max.	2.10	0.50	1.30
APIM201655S	2.0±0.2	0.6±0.2	1.6±0.2	0.70±0.2	0.55Max.	2.10	0.50	1.70
APIM201665S	2.0±0.2	0.6±0.2	1.6±0.2	0.70±0.2	0.65Max.	2.10	0.50	1.70
APIM201607S	2.0±0.2	0.6±0.2	1.6±0.2	0.70±0.2	0.70Max.	2.10	0.50	1.70
APIM201608S	2.0±0.2	0.6±0.2	1.6±0.2	0.70±0.2	0.80Max.	2.10	0.50	1.70
APIM201610S	2.0±0.2	0.6±0.2	1.6±0.2	0.70±0.2	1.00Max.	2.10	0.50	1.70
APIM201612S	2.0±0.2	0.6±0.2	1.6±0.2	0.70±0.2	1.20Max.	2.10	0.50	1.70
APIM252055S	2.5±0.2	0.8±0.2	2.0±0.2	0.85±0.2	0.55Max.	2.60	0.70	2.10
APIM252075S	2.5±0.2	0.8±0.2	2.0±0.2	0.85±0.2	0.75Max.	2.60	0.70	2.10
APIM252008S	2.5±0.2	0.8±0.2	2.0±0.2	0.85±0.2	0.80Max.	2.60	0.70	2.10
APIM252010S	2.5±0.2	0.8±0.2	2.0±0.2	0.85±0.2	1.00Max.	2.60	0.70	2.10
APIM252012S	2.5±0.2	0.8±0.2	2.0±0.2	0.85±0.2	1.20Max.	2.60	0.70	2.10
APIM322510S	3.2±0.2	1.0±0.2	2.5±0.2	1.05±0.2	1.00Max.	3.20	0.90	2.50
APIM322512S	3.2±0.2	1.0±0.2	2.5±0.2	1.05±0.2	1.20Max.	3.20	0.90	2.50
APIM322520S	3.2±0.2	1.0±0.2	2.5±0.2	1.05±0.2	2.00Max.	3.20	0.90	2.50
APIM0310D	3.0±0.1	0.9±0.2	3.0±0.1	1.00±0.2	1.00Max.	3.00	0.80	3.00
APIM0312D	3.0±0.1	0.9±0.2	3.0±0.1	1.00±0.2	1.20Max.	3.00	0.80	3.00
APIM0315D	3.0±0.1	0.9±0.2	3.0±0.1	1.00±0.2	1.50Max.	3.00	0.80	3.00
APIM0318D	3.0±0.1	0.9±0.2	3.0±0.1	1.00±0.2	1.80Max.	3.00	0.80	3.00
APIM0320D	3.0±0.1	0.9±0.2	3.0±0.1	1.00±0.2	2.00Max.	3.00	0.80	3.00

APIM0410S	4.1±0.2	1.3±0.2	4.1±0.2	1.40±0.2	1.00Max.	4.10	1.10	4.10
APIM0412S	4.1±0.2	1.3±0.2	4.1±0.2	1.40±0.2	1.20Max.	4.10	1.10	4.10
APIM0420S	4.1±0.2	1.3±0.2	4.1±0.2	1.40±0.2	2.00Max.	4.10	1.10	4.10
APIM0430S	4.1±0.2	1.3±0.2	4.1±0.2	1.40±0.2	3.00Max.	4.10	1.10	4.10

Marking

No Marking

Specifications

APIM121065 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM121065SB2R2MT	2.2	280	340	1.0	0.9	1.3	1.2

APIM160865 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM160865SBR47MT	0.47	66	82	2.3	2.0	3.3	3.0
APIM160865SB1R0MT	1.0	180	200	1.8	1.5	2.4	2.0
APIM160865SB2R2MT	2.2	390	430	1.3	1.1	1.6	1.3

APIM160808 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM160808SBR22MT	0.22	33	40	3.4	3.0	5.5	5.0
APIM160808SBR24MT	0.24	34	41	3.3	2.9	5.3	4.8
APIM160808SBR47MT	0.47	80	100	2.6	2.3	4.1	3.7
APIM160808SBR56MT	0.56	85	110	2.2	1.9	4.0	3.5
APIM160808SBR68MT	0.68	110	130	2.1	1.9	3.3	3.0
APIM160808SB1R0MT	1.0	180	200	2.1	1.8	3.0	2.6
APIM160808SB1R5MT	1.5	240	285	1.7	1.4	2.4	2.0
APIM160808SB2R2MT	2.2	220	260	1.4	1.2	1.5	1.3
APIM160808SB3R3MT	3.3	500	600	1.0	0.9	1.4	1.2
APIM160808SB4R7MT	4.7	585	700	1.0	0.8	1.2	1.0
APIM160808SB100MT	10	1450	1600	0.5	0.45	0.8	0.7

APIM141265 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM141265SBR33MT	0.33	26	32	4.4	4.2	4.4	4.0
APIM141265SBR47MT	0.47	37	45	3.0	2.7	3.4	3.0

APIM141207 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM141207SBR24MT	0.24	22	28	4.0	3.6	4.6	4.3
APIM141207SBR47MT	0.47	34	38	3.8	3.3	3.8	3.5

APIM141208 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM141208SBR24MT	0.24	22	27	4.1	3.7	6.0	5.7
APIM141208SBR33MT	0.33	23	28	4.0	3.5	5.3	5.0
APIM141208SBR47MT	0.47	29	35	3.8	3.3	4.6	4.2
APIM141208SB1R0MT	1.0	65	77	3.0	2.5	3.0	2.5

APIM201265 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM201265SB1R0MT	1.0	78	86	2.6	2.3	2.8	2.5
APIM201265SB2R2MT	2.2	215	230	1.7	1.4	1.8	1.5

APIM201208 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM201208SBR11MT	0.11	10	12	7.0	6.5	9.5	9.0
APIM201208SBR15MT	0.15	11	13	6.8	6.3	7.5	7.0
APIM201208SBR24MT	0.24	18	23	6.5	5.9	6.5	6.0
APIM201208SBR33MT	0.33	33	45	4.3	4.0	5.2	4.8
APIM201208SBR47MT	0.47	34	50	3.5	3.3	5.0	4.6
APIM201208SBR68MT	0.68	50	60	3.7	3.3	4.2	3.7
APIM201208SB1R0MT	1.0	55	70	3.3	2.9	4.0	3.5
APIM201208SB1R5MT	1.5	118	135	2.2	1.9	3.0	2.5

APIM201208SB2R2MT	2.2	160	185	2.2	1.8	2.6	2.3
APIM201208SB3R3MT	3.3	253	300	1.8	1.5	1.9	1.6
APIM201208SB4R7MT	4.7	285	325	1.7	1.5	1.6	1.4

APIM201210 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM201210SBR10MT	0.1	8.0	13	7.5	7.0	8.5	8.0
APIM201210SBR22MT	0.22	16	22	7.1	6.5	7.3	6.8
APIM201210SBR24MT	0.24	17	23	7.0	6.4	7.2	6.7
APIM201210SBR33MT	0.33	24	32	5.5	5.0	6.5	6.0
APIM201210SBR47MT	0.47	29	36	4.7	4.3	5.5	5.0
APIM201210SBR68MT	0.68	37	43	4.3	4.0	5.0	4.5
APIM201210SB1R0MT	1.0	55	63	3.9	3.5	4.0	3.5
APIM201210SB1R5MT	1.5	76	85	3.1	2.6	3.2	2.7
APIM201210SB2R2MT	2.2	135	150	2.0	1.7	2.7	2.4
APIM201210SB3R3MT	3.3	210	260	1.8	1.5	2.2	1.8
APIM201210SB4R7MT	4.7	275	300	1.6	1.4	1.8	1.6
APIM201210SB6R8MT	6.8	440	520	1.5	1.3	1.45	1.2
APIM201210SB100MT	10.0	600	660	1.1	1.0	1.2	1.0

APIM201212 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM201212SBR11MT	0.11	5.5	6.2	12	11	12	11
APIM201212SBR24MT	0.24	13	16	7.5	7.0	9.0	8.5
APIM201212SBR47MT	0.47	20	23.5	6.0	5.5	5.5	5.0
APIM201212SB3R3MT	3.3	180	210	1.8	1.6	2.0	1.8

APIM201655 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM201655SBR33MT	0.33	34	41	4.0	3.5	4.0	3.5
APIM201655SBR47MT	0.47	44	53	3.5	3.0	3.5	3.0

APIM201665 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM201655SB1R0MT	1.0	58	70	3.5	3.0	3.0	2.7

APIM201607 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM201607SB2R2MT	2.2	150	175	2.1	1.8	2.3	2.0

APIM201608 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM201608SBR22MT	0.22	14	19	6.6	5.9	6.1	5.6
APIM201608SBR24MT	0.24	14	20	6.5	5.8	6.0	5.5
APIM201608SBR33MT	0.33	18	24	5.5	4.8	5.8	5.3
APIM201608SBR47MT	0.47	24	27	4.6	4.4	5.5	5.0
APIM201608SBR68MT	0.68	39	44	3.8	3.5	4.6	4.2
APIM201608SB1R0MT	1.0	53	60	3.6	3.3	3.3	3.1
APIM201608SB1R5MT	1.5	73	85	3.1	2.8	3.0	2.8
APIM201608SB2R2MT	2.2	123	140	2.2	2.0	2.5	2.3
APIM201608SB3R3MT	3.3	200	220	1.8	1.5	2.1	1.8
APIM201608SB4R7MT	4.7	260	290	1.6	1.4	1.7	1.5
APIM201608SB100MT	10.0	690	800	1.0	0.9	1.0	0.9

APIM201610 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM201610SBR10MT	0.1	7.0	12	8.5	8.0	9.0	8.4
APIM201610SBR11MT	0.11	7.5	13	8.0	7.5	8.9	8.2
APIM201610SBR15MT	0.15	8.0	14	7.6	7.0	8.7	8.0
APIM201610SBR22MT	0.22	11	18	6.9	6.3	8.2	7.5

APIM201610SBR24MT	0.24	12	19	6.8	6.2	8.0	7.4
APIM201610SBR33MT	0.33	17	22	5.7	5.3	7.0	6.5
APIM201610SBR47MT	0.47	22	25	5.5	5.0	6.3	5.5
APIM201610SBR56MT	0.56	19	23	7.5	7.0	5.5	5.0
APIM201610SBR68MT	0.68	25	32	4.6	4.3	5.2	4.7
APIM201610SB1R0MT	1.0	35	43	4.5	4.1	4.6	4.2
APIM201610SB1R5MT	1.5	80	100	2.6	2.3	3.2	2.9
APIM201610SB2R2MT	2.2	120	130	2.5	2.1	3.0	2.8
APIM201610SB3R3MT	3.3	140	170	1.7	1.5	2.3	2.0
APIM201610SB4R7MT	4.7	190	220	1.6	1.4	2.0	1.8
APIM201610SB6R8MT	6.8	320	350	1.7	1.5	1.7	1.5
APIM201610SB100MT	10.0	483	580	1.0	0.7	1.4	1.1

APIM201612 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM201612SBR10MT	0.1	4.0	6.0	12	10	13	11.5
APIM201612SBR11MT	0.11	4.8	5.6	15.5	14.5	12.5	11.0
APIM201612SBR15MT	0.15	7.5	10	10	9.0	12	10.5
APIM201612SBR24MT	0.24	9.0	11	9.1	8.6	9.2	8.7
APIM201612SBR33MT	0.33	10	15	7.7	7.2	7.8	7.3
APIM201612SBR47MT	0.47	13	17	6.7	6.0	6.7	6.0
APIM201612SBR68MT	0.68	19	23	6.0	5.3	6.0	5.3
APIM201612SB1R0MT	1.0	30	36	5.0	4.5	5.0	4.5
APIM201612SB1R5MT	1.5	40	50	4.0	3.5	4.0	3.5
APIM201612SB2R2MT	2.2	77	90	3.3	2.9	3.1	2.7
APIM201612SB3R3MT	3.3	135	165	2.4	2.0	2.7	2.3

APIM252055 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM252055SBR22MT	0.22	23	28	6.5	6.0	4.8	4.5
APIM252055SBR47MT	0.47	42	49	5.5	5.2	3.5	3.2

APIM252075 Series

P/N	L0(μH)	Rdc(mΩ)	Heat rating current Irms(A)	Saturation current Isat(A)

	@(0A) 1MHz	Typical	Max	Typical	Max	Typical	Max
APIM252075SB2R2MT	2.2	78	90	2.3	2.0	2.6	2.4
APIM252075SB100MT	10.0	487	530	1.1	0.9	1.1	0.9

APIM252008 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM252008SBR47MT	0.47	22	27	6.5	6.0	6.0	5.3
APIM252008SB1R0MT	1.0	34	40	4.3	4.0	4.5	4.0
APIM252008SB1R5MT	1.5	64	75	3.4	3.0	3.5	3.0
APIM252008SB2R2MT	2.2	69	77	3.0	2.6	3.0	2.6
APIM252008SB3R3MT	3.3	150	180	2.5	2.1	2.5	2.1
APIM252008SB4R7MT	4.7	180	215	2.0	1.5	1.9	1.5
APIM252008SB100MT	10.0	500	600	1.4	1.2	1.1	0.9

APIM252010 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM252010SBR22MT	0.22	12	17	6.8	6.5	8.6	7.9
APIM252010SBR24MT	0.24	12	17.5	6.7	6.4	8.5	7.8
APIM252010SBR33MT	0.33	13	19	6.5	6.2	7.6	7.2
APIM252010SBR47MT	0.47	15	22	6.1	5.6	6.9	6.5
APIM252010SBR68MT	0.68	23	27	5.6	5.0	5.9	5.5
APIM252010SBR82MT	0.82	25	29	4.5	4.1	5.3	4.8
APIM252010SB1R0MT	1.0	25	30	4.5	4.1	5.3	4.8
APIM252010SB1R5MT	1.5	45	55	3.4	3.0	4.3	3.9
APIM252010SB2R2MT	2.2	62	70	2.4	2.1	3.3	3.0
APIM252010SB3R3MT	3.3	86	100	2.5	2.1	2.8	2.5
APIM252010SB4R7MT	4.7	160	180	2.0	1.6	2.6	2.0
APIM252010SB6R8MT	6.8	270	320	1.6	1.4	2.4	1.9
APIM252010SB100MT	10.0	500	560	1.05	0.95	1.55	1.4
APIM252010SB220MT	22.0	1100	1300	0.85	0.6	1.1	0.9

APIM252012 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM252012SBR10MT	0.1	6	10	12	10.5	13.5	12.5

APIM252012SBR15MT	0.15	7	11	11.5	10	13.0	12.0
APIM252012SBR22MT	0.22	9	14	8.2	7.6	9.6	9.0
APIM252012SBR24MT	0.24	10	15	8.0	7.5	9.3	8.8
APIM252012SBR33MT	0.33	11	17	6.8	6.4	8.3	7.8
APIM252012SBR47MT	0.47	13	19	6.5	6.0	7.5	7.0
APIM252012SBR68MT	0.68	17	23	6.3	5.5	6.5	6.0
APIM252012SBR82MT	0.82	19	24	5.8	5.3	6.5	5.8
APIM252012SB1R0MT	1.0	35	42	4.0	3.6	5.6	5.0
APIM252012SB1R2MT	1.2	40	45	3.8	3.4	4.5	4.1
APIM252012SB1R5MT	1.5	44	50	3.7	3.2	4.5	4.1
APIM252012SB2R2MT	2.2	55	65	3.0	2.7	3.8	3.3
APIM252012SB3R3MT	3.3	80	97	2.3	1.8	3.0	2.7
APIM252012SB4R7MT	4.7	150	170	1.8	1.5	2.4	2.1
APIM252012SB6R8MT	6.8	245	270	1.6	1.4	2.0	1.7
APIM252012SB100MT	10.0	330	400	1.2	1.05	1.6	1.45
APIM252012SB150MT	15.0	500	565	1.4	1.3	1.4	1.3
APIM252012SB220MT	22.0	740	800	1.2	1.1	1.1	1.0

APIM322510 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM322510SBR22MT	0.22	9	11	8.5	8.0	8.5	8.0
APIM322510SBR33MT	0.33	11	15	8.3	7.8	8.3	7.8
APIM322510SBR47MT	0.47	17	22	6.4	5.9	8.3	7.6
APIM322510SBR68MT	0.68	22	28	6.2	5.7	7.5	7.0
APIM322510SB1R0MT	1.0	25	30	5.4	4.9	6.0	5.3
APIM322510SB1R5MT	1.5	34	42	4.0	3.6	5.0	4.4
APIM322510SB2R2MT	2.2	55	66	3.7	3.4	4.0	3.5
APIM322510SB3R3MT	3.3	105	120	2.7	2.3	3.7	3.3
APIM322510SB4R7MT	4.7	125	140	2.3	1.9	2.8	2.5
APIM322510SB6R8MT	6.8	290	320	1.9	1.6	2.4	2.0
APIM322510SB100MT	10.0	325	365	2.2	1.8	2.2	1.8

APIM322512 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM322512SBR10MT	0.10	5.2	7.0	12.0	11.0	18.0	16.5

APIM322512SBR22MT	0.22	6.6	10	9.2	8.7	11.5	11.0
APIM322512SBR24MT	0.24	7.0	12	9.0	8.5	11	10.5
APIM322512SBR33MT	0.33	9.0	14	8.4	8.1	10	9.5
APIM322512SBR47MT	0.47	14	19	7.5	7.2	8.6	8.2
APIM322512SBR68MT	0.68	18	23	7.3	6.8	8.1	7.7
APIM322512SB1R0MT	1.0	26	30	5.3	4.8	6.6	5.8
APIM322512SB1R5MT	1.5	37	44	4.7	4.3	5.1	4.7
APIM322512SB2R2MT	2.2	58	70	3.6	3.0	4.6	4.2
APIM322512SB3R3MT	3.3	75	95	2.9	2.5	3.7	3.2
APIM322512SB4R7MT	4.7	115	135	2.3	2.0	2.9	2.6
APIM322512SB6R8MT	6.8	177	210	2.1	1.9	2.8	2.4
APIM322512SB100MT	10.0	210	230	2.2	1.8	2.3	1.9

APIM322520 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM322520SBR27MT	0.27	5.5	6.5	16	15	16	15
APIM322520SBR33MT	0.33	7.5	9	9.5	9	15.5	14
APIM322520SBR47MT	0.47	9	10.5	9.5	8.5	15	13
APIM322520SBR68MT	0.68	12.5	14.5	9.0	8.0	13	11
APIM322520SB1R0MT	1.0	15	17.5	8.2	7.5	9.0	8.3
APIM322520SB1R5MT	1.5	22	25	6.5	6.0	6.8	6.0
APIM322520SB2R2MT	2.2	36	43	5.4	4.8	6.5	5.5
APIM322520SB3R3MT	3.3	55	60	4.5	4.0	4.5	3.5
APIM322520SB4R7MT	4.7	81	94	3.5	3.0	4.0	3.0
APIM322520SB6R8MT	6.8	101	125	2.8	2.3	3.8	2.9

APIM0310 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM0310DB6R8MT	6.8	225	270	2.1	1.8	1.8	1.5
APIM0310DB100MT	10.0	320	360	2.0	1.7	1.6	1.3

APIM0312 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM0312DBR10MT	0.10	5.0	6.0	18	17	20	18

APIM0312DB1R0MT	1.0	23	27	5.5	5.0	6.5	5.5
APIM0312DB4R7MT	4.7	100	120	3.0	2.5	3.0	2.5
APIM0312DB100MT	10.0	192	220	2.3	1.9	2.3	2.0
APIM0312DB150MT	15.0	345	380	1.6	1.3	1.9	1.6

APIM0315 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM0315DBR15MT	0.15	5.0	6.0	12.0	11.0	16.0	15.0
APIM0315DBR47MT	0.47	9.0	11	9.0	8.0	10.0	9.0
APIM0315DB1R0MT	1.0	18	22	6.0	5.5	7.0	6.5
APIM0315DB1R5MT	1.5	22	26	8.0	7.5	6.0	5.5
APIM0315DB2R2MT	2.2	42	50	4.5	4.0	5.0	4.5
APIM0315DB4R7MT	4.7	87	104	3.5	3.0	4.0	3.5
APIM0315DB6R8MT	6.8	160	180	2.5	2.0	3.5	3.0
APIM0315DB100MT	10.0	185	215	2.0	1.5	2.8	2.5
APIM0315DB220MT	22.0	580	700	1.2	1.0	1.6	1.2

APIM0318 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM0318DBR22MT	0.22	5.5	7.0	10.0	9.0	17	16
APIM0318DBR47MT	0.47	8	10	9.0	8.0	12	11
APIM0318DB1R0MT	1.0	15	21	6.3	5.8	7.6	6.8
APIM0318DB1R5MT	1.5	20	26	6.8	6.4	8.0	7.0
APIM0318DB4R7MT	4.7	72	87	3.4	3.0	4.7	4.2

APIM0320 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM0320DBR15MT	0.15	4.0	5.0	13	12	18	17
APIM0320DBR33MT	0.33	7.5	9	10.0	9.0	17	15
APIM0320DBR50MT	0.5	9.0	12	9.0	8.0	15	13
APIM0320DBR68MT	0.68	13	16	8.5	7.8	13	11
APIM0320DB1R0MT	1.0	14	20	6.5	6.0	8.0	7.3
APIM0320DB1R5MT	1.5	19	25	6.3	5.8	7.0	6.5

APIM0320DB2R2MT	2.2	37	45	4.7	4.3	6.0	5.5
APIM0320DB3R3MT	3.3	52	63	4.5	4.0	5.9	5.4
APIM0320DB4R7MT	4.7	60	73	4.2	3.8	4.8	4.0
APIM0320DB6R8MT	6.8	107	135	3.2	3.0	4.5	3.8
APIM0320DB100MT	10.0	135	160	2.5	2.2	3.8	3.3
APIM0320DB150MT	15.0	235	260	1.8	1.5	2.6	2.2

APIM0410 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM0410SG100MT	10	220	280	2.5	2.0	2.2	2.0

APIM0412 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM0412SGR47MT	0.47	11.5	14	9.0	8.5	12	11.5
APIM0412SG1R0MT	1.0	21	25	6.3	5.5	11	10
APIM0412SG1R5MT	1.5	29	34.5	6.0	5.0	8.0	7.0
APIM0412SG2R2MT	2.2	45	55	5.0	4.5	6.5	6.0
APIM0412SG3R3MT	3.3	67	80	4.5	4.0	5.5	5.0
APIM0412SG4R7MT	4.7	90	110	3.5	3.0	5.0	4.5
APIM0412SG5R6MT	5.6	116	140	3.0	2.5	4.5	4.0
APIM0412SG6R8MT	6.8	132	160	2.8	2.3	3.8	3.5
APIM0412SG100MT	10.0	200	235	2.5	2.0	2.8	2.5

APIM0420 Series

/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM0420SGR33MT	0.33	5.0	6.0	9.5	8.5	18.0	17.0
APIM0420SGR47MT	0.47	7.0	8.5	8.5	8.0	16.0	15.0
APIM0420SG1R0MT	1.0	12	14.5	6.5	6.0	12.5	11.5
APIM0420SG1R5MT	1.5	18	22	6.0	5.5	10.5	9.5
APIM0420SG2R2MT	2.2	30	36	5.5	5.0	9.5	8.5
APIM0420SG3R3MT	3.3	35	40	6.3	5.8	8.0	7.0
APIM0420SG4R7MT	4.7	47	58	5.0	4.0	6.3	5.5
APIM0420SG6R8MT	6.8	90	105	3.7	3.2	5.4	4.5
APIM0420SG100MT	10	113	135	3.7	3.0	4.9	4.0

APIM0420SG150MT	15	210	250	2.3	1.7	3.5	3.0
APIM0420SG220MT	22	275	330	1.8	1.3	2.9	2.3

APIM0430 Series

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM0430SGR47MT	0.47	5.5	7.0	15	14	23	21
APIM0430SGR68MT	0.68	8.3	10	9.5	8.0	17	15
APIM0430SG1R0MT	1.0	10	12	10	9.0	15.5	14
APIM0430SG1R5MT	1.5	15	18	6.5	6.0	12.5	11
APIM0430SG2R2MT	2.2	19	22	9.0	8.5	10.5	9.5
APIM0430SG3R3MT	3.3	30	35	5.3	4.8	8.5	7.5
APIM0430SG4R7MT	4.7	41	46	4.3	4.0	7.0	6.0
APIM0430SG6R8MT	6.8	51	62	4.2	3.8	6.3	5.1

Test remarks

- All test data is referenced to 25 ℃ ambient.
- Test Condition:1MHz, 1.0Vrms.
- Irms:DC current (A) that will cause an approximate △T of 40 ℃.
- Isat:DC current (A) that will cause L0 to drop approximately 30%.
- Operating Temperature Range -55℃ to + 125℃.
- 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.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.