

模压功率电感—MWSA-S 系列

Molded Power Inductors – MWSA – S Series



工作温度
Operating Temp

- 55°C ~+125°C (Including self-heating)

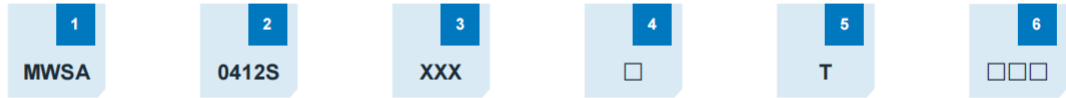
特征
Features

- 铁合金材料, 高饱和电流, 低 DCR
- 闭合磁路设计, 漏磁干扰小
- 无卤, 符合 RoHS 标准
- Metal material for large current and low DCR
- Closed magnetic circuit design reduces leakage flux
- Halogen free, RoHS compliant

用途
Applications

- TV、显卡、内存
- 笔记本电脑、平板电脑
- 通讯设备、工业设备
- TV, graphics, memory
- Notebooks, tablets
- Communication equipments, industrial equipments

产品型号
Product Identification



1 分类 Type	
MWSA	模压式贴片功率电感 Molded SMD Power Inductors

3 公称感量 Nominal Inductance[μH]	
Example	Nominal Value[μH]
R15	0.15μH
1R0	1.0μH

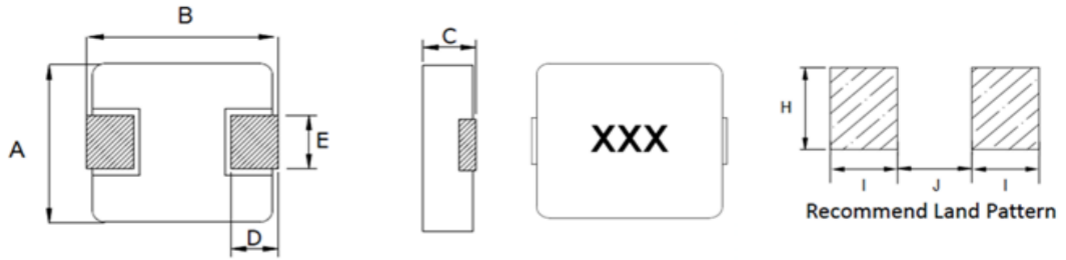
4 感量精度 Inductance Tolerance	
M	±20%

5 包装 Packing	
T	编带 Tape & Reel

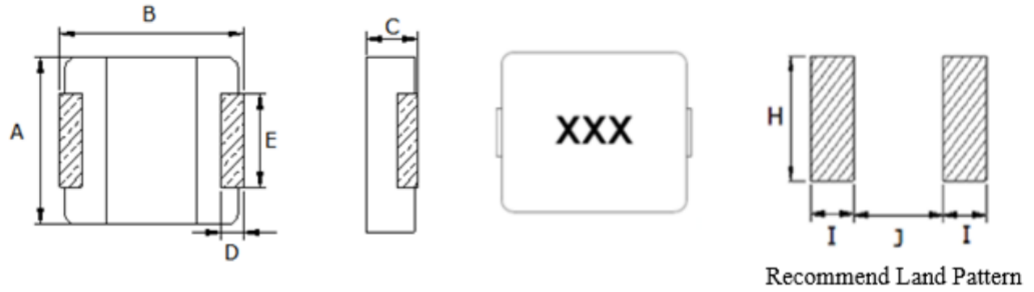
6 设计代号 Design Code	
□□□	Design Code
* Standard product is blank	

2 外形尺寸尺寸 (L×W×H) [mm] External Dimensions (L×W×H) [mm]	
0412	4.2×4.4×1.0
0402	4.2×4.4×1.8
0515	5.2×5.4×1.3
0518	5.2×5.4×1.6
0503	5.2×5.4×2.8
0615	6.6×7.0×1.3
0618	6.6×7.0×1.6
0602	6.6×7.0×1.8
0624	6.6×7.0×2.2
0603	6.6×7.0×2.8
0605	6.6×7.0×4.8
0804	8.2×8.8×3.8
1003	10.0×11.5×2.8
1004	10.0×11.0×3.8
1005	10.0×11.5×4.8
1204	12.8×13.45×4.0
1205	12.6×13.45×4.8
1206	12.6×13.45×5.8
1265	12.6×13.45×6.5
1707	17.15×17.15×6.7
2213	22.0×23.5×12.6

外观尺寸
Shape and Dimensions



Remark: MWSA0412S ~ MWSA1265S Series



Remark: MWSA1707S ~ MWSA2213S Series

Unit: mm

Series	A	B	C	D	E	I Typ.	J Typ.	H Typ.
MWSA0412S	4.2±0.25	4.4±0.35	1.0±0.2	0.8±0.3	2.0±0.3	1.5	2.2	2.5
MWSA0402S	4.2±0.25	4.4±0.35	1.8±0.2	0.8±0.3	2.0±0.3	1.5	2.2	2.5
MWSA0515S	5.2±0.2	5.4±0.35	1.3±0.2	1.2±0.2	2.2±0.3	1.9	2.2	2.5
MWSA0518S	5.2±0.2	5.4±0.35	1.6±0.2	1.2±0.2	2.2±0.3	1.9	2.2	2.5
MWSA0503S	5.2±0.2	5.4±0.35	2.8±0.2	1.2±0.2	2.2±0.3	1.9	2.2	2.5
MWSA0615S	6.6±0.2	7.0±0.3	1.3±0.2	1.6±0.3	3.0±0.3	2.35	3.7	3.5
MWSA0618S	6.6±0.2	7.0±0.3	1.6±0.2	1.6±0.3	3.0±0.3	2.35	3.7	3.5
MWSA0602S	6.6±0.2	7.0±0.3	1.8±0.2	1.6±0.3	3.0±0.3	2.35	3.7	3.5
MWSA0624S	6.6±0.2	7.0±0.3	2.2±0.2	1.6±0.3	3.0±0.3	2.35	3.7	3.5
MWSA0603S	6.6±0.2	7.0±0.3	2.8±0.2	1.6±0.3	3.0±0.3	2.35	3.7	3.5
MWSA0605S	6.6±0.2	7.0±0.3	4.8±0.2	1.6±0.3	3.0±0.3	2.35	3.7	3.5
MWSA0804S	8.2±0.3	8.8±0.4	3.8±0.2	1.4±0.3	5.0±0.3	2.75	4.0	5.5
MWSA1003S	10.0±0.3	11.5 Max.	2.8±0.2	2.0±0.5	3.0±0.3	4.1	5.4	4.1
MWSA1004S	10.0±0.3	11.0±0.5	3.8±0.2	2.0±0.5	3.0±0.5	4.1	5.4	4.1
MWSA1005S	10.0±0.3	11.5 Max.	4.8±0.2	2.0±0.5	3.0±0.5	4.1	5.4	4.1
MWSA1204S	12.8±0.5	13.45±0.35	4.0 Max.	2.0±0.5	See Remarks	3.25	8.0	5.5
MWSA1205S	12.6±0.3	13.45±0.35	4.8±0.2	2.0±0.5	See Remarks	3.25	8.0	5.5
MWSA1206S	12.6±0.3	13.45±0.35	5.8±0.2	2.0±0.5	See Remarks	3.25	8.0	5.5
MWSA1265S	12.6±0.3	13.45±0.35	6.5 Max.	2.0±0.5	5.0±0.3	3.25	8.0	5.5
MWSA1707S	17.15 Max.	17.15±0.35	6.7±0.3	2.5±0.5	12.0±0.3	3.50	11.2	12.8
MWSA2213S	22.0±0.3	23.5±0.5	12.6±0.4	5.0±0.4	19.0±0.3	5.75	12.5	19.6

Remarks:

Series	E(mm)	Inductance
MWSA1204S	3.85±0.5	R22/R47
	5.0±0.3	R68/R82/1R0/1R5/2R2/3R3/4R7/6R8/100/150/220
MWSA1205S	3.85±0.5	R22/R36/R50/R68/R82/1R0/1R5/2R2
	5.0±0.3	3R3/4R7/6R8/100/150/220/330/470
MWSA1206S	3.85±0.5	R68/1R5/2R2
	5.0±0.3	3R3/4R7/5R6/6R8/8R2/100/120/150/180/220/270/330/470/680/101/121/151

规格特性
Specifications

MWSA0412S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA0412S-R15MT	0.15±20%	9	12.00	15.00	6.80	7.50
MWSA0412S-R22MT	0.22±20%	11	8.80	11.00	6.50	7.00
MWSA0412S-R33MT	0.33±20%	19	6.70	8.40	5.70	6.50
MWSA0412S-R47MT	0.47±20%	21	5.40	6.80	5.20	6.00
MWSA0412S-R68MT	0.68±20%	36	4.80	6.00	4.20	4.70
MWSA0412S-1R0MT	1.0±20%	47	4.40	5.50	3.80	4.50
MWSA0412S-1R5MT	1.5±20%	75	3.20	4.00	2.70	3.25
MWSA0412S-2R2MT	2.2±20%	83.5	2.40	3.00	2.20	2.75
MWSA0412S-3R3MT	3.3±20%	160	2.38	2.70	1.77	2.00
MWSA0412S-4R7MT	4.7±20%	195	1.80	2.20	1.45	1.80

MWSA0402S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA0402S-R10MT	0.10±20%	4	17.60	22.00	11.20	13.00
MWSA0402S-R22MT	0.22±20%	6.6	10.00	12.50	8.20	9.50
MWSA0402S-R33MT	0.33±20%	11	9.60	12.00	8.60	10.00
MWSA0402S-R47MT	0.47±20%	14	7.60	9.50	6.65	7.50
MWSA0402S-R56MT	0.56±20%	16	7.20	9.00	6.10	7.00
MWSA0402S-R68MT	0.68±20%	18	6.40	8.00	6.15	7.00
MWSA0402S-1R0MT	1.0±20%	27	5.60	7.00	5.40	6.00
MWSA0402S-1R0MTB01	1.0±20%	27	8.00	9.00	5.40	6.00
MWSA0402S-1R2MT	1.2±20%	27	5.20	6.50	5.40	6.00
MWSA0402S-1R5MT	1.5±20%	46	4.40	5.50	4.30	5.00
MWSA0402S-2R2MT	2.2±20%	58	4.00	5.00	3.80	4.50
MWSA0402S-3R3MT	3.3±20%	87	2.80	3.50	2.80	3.30
MWSA0402S-4R7MT	4.7±20%	105	2.40	3.00	2.20	2.80
MWSA0402S-5R6MT	5.6±20%	150	2.24	2.80	2.00	2.50
MWSA0402S-6R8MT	6.8±20%	175	2.00	2.50	1.90	2.40
MWSA0402S-100MT	10±20%	282	1.60	2.00	1.30	1.60
MWSA0402S-220MT	22±20%	363	1.12	1.40	0.90	1.20

MWSA0515S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA0515S-R47MT	0.47±20%	13	12.00	13.00	8.70	9.50
MWSA0515S-R68MT	0.68±20%	15.5	9.50	11.20	8.10	9.00
MWSA0515S-1R0MT	1.0±20%	23	8.00	9.50	5.80	6.50
MWSA0515S-2R2MT	2.2±20%	52	4.80	5.80	4.00	5.00
MWSA0515S-3R3MT	3.3±20%	72	4.00	4.50	3.00	3.30
MWSA0515S-4R7MT	4.7±20%	106	3.70	4.20	2.60	3.00

规格特性
Specifications

MWSA0518S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA0518S-R47MT	0.47±20%	9	9.60	12.00	9.50	10.50
MWSA0518S-R56MT	0.56±20%	10	8.80	11.00	8.20	9.50
MWSA0518S-R68MT	0.68±20%	13.8	9.30	10.50	7.70	8.70
MWSA0518S-1R0MT	1.0±20%	17	7.20	9.00	7.20	8.00
MWSA0518S-1R5MT	1.5±20%	26	6.40	8.00	6.60	7.50
MWSA0518S-2R2MT	2.2±20%	35	4.80	6.00	4.20	5.00
MWSA0518S-3R3MT	3.3±20%	58	3.84	4.80	3.80	4.50
MWSA0518S-4R7MT	4.7±20%	85	3.20	4.00	3.00	3.50
MWSA0518S-6R8MT	6.8±20%	120	2.72	3.40	2.40	2.80
MWSA0518S-100MT	10±20%	155	2.00	2.50	2.20	2.50

MWSA0503S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA0503S-R10MT	0.10±20%	3	24.00	30.00	23.00	25.00
MWSA0503S-R20MT	0.20±20%	3.9	16.00	20.00	13.00	14.00
MWSA0503S-R33MT	0.33±20%	5.5	14.40	18.00	13.10	14.00
MWSA0503S-R47MT	0.47±20%	8.5	12.00	15.00	10.00	11.00
MWSA0503S-R68MT	0.68±20%	12	9.20	11.50	8.20	9.00
MWSA0503S-R82MT	0.82±20%	10.4	9.20	10.50	9.00	10.50
MWSA0503S-1R0MT	1.0±20%	14	8.00	10.00	7.80	8.50
MWSA0503S-1R2MT	1.2±20%	16	7.60	9.50	7.85	8.50
MWSA0503S-1R5MT	1.5±20%	25	7.20	9.00	7.60	8.20
MWSA0503S-2R2MT	2.2±20%	29	5.60	7.00	6.40	7.00
MWSA0503S-3R3MT	3.3±20%	38	4.80	6.00	5.00	5.50
MWSA0503S-4R7MT	4.7±20%	60	3.68	4.60	4.00	4.50
MWSA0503S-6R8MT	6.8±20%	90	2.88	3.60	2.90	3.50
MWSA0503S-100MT	10±20%	125	2.80	3.50	2.80	3.20
MWSA0503S-150MT	15±20%	170	2.00	2.20	1.60	1.80

MWSA0615S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA0615S-R47MT	0.47±20%	8.5	14.16	16.00	8.85	10.00
MWSA0615S-R56MT	0.56±20%	11	12.38	14.00	7.96	9.00
MWSA0615S-R68MT	0.68±20%	12	10.62	12.00	7.52	8.50
MWSA0615S-R82MT	0.82±20%	17	8.85	10.00	7.08	8.00
MWSA0615S-1R0MT	1.0±20%	21	7.96	9.00	5.30	6.00
MWSA0615S-1R5MT	1.5±20%	40	7.00	8.00	4.40	5.00
MWSA0615S-2R2MT	2.2±20%	54	6.19	7.00	3.36	3.80
MWSA0615S-3R3MT	3.3±20%	63	4.87	5.50	3.10	3.50
MWSA0615S-4R7MT	4.7±20%	85	4.42	5.00	2.83	3.20
MWSA0615S-6R8MT	6.8±20%	135	3.54	4.00	2.21	2.50
MWSA0615S-100MT	10±20%	175	2.65	3.00	1.77	2.00
MWSA0615S-220MT	22±20%	510	2.20	2.50	1.32	1.40

Multilayer Chip Ferrite Inductor
Multilayer Chip Inductor for Choke
Multilayer Chip Power Inductor
Multilayer Ultra High Q Chip Ceramic Inductor
Multilayer High Q Chip Ceramic Inductor
Multilayer Chip Ceramic Inductor
Multilayer High Frequency Chip Ceramic Inductor
Wire Wound Chip Ferrite Inductor
Wire Wound Chip Ceramic Inductor
SMD Power Inductor

规格特性
Specifications

MWSA0618S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA0618S-R10MT	0.10±20%	2.3	30.40	38.00	23.00	25.00
MWSA0618S-R22MT	0.22±20%	3.5	19.20	24.00	20.00	22.00
MWSA0618S-R47MT	0.47±20%	8.4	16.00	18.00	10.00	11.50
MWSA0618S-R68MT	0.68±20%	12	13.20	16.50	8.40	9.50
MWSA0618S-1R0MT	1.0±20%	16	9.60	12.00	7.60	8.50
MWSA0618S-1R5MT	1.5±20%	26	7.36	9.20	7.10	8.00
MWSA0618S-2R2MT	2.2±20%	35	6.40	8.00	6.20	7.00
MWSA0618S-3R3MT	3.3±20%	50	4.80	6.00	3.80	4.50
MWSA0618S-4R7MT	4.7±20%	62	4.00	5.00	3.50	4.00
MWSA0618S-6R8MT	6.8±20%	110	3.60	4.50	2.40	3.00
MWSA0618S-8R2MT	8.2±20%	135	2.90	3.60	2.10	2.40
MWSA0618S-100MT	10±20%	155	3.20	4.00	1.95	2.30
MWSA0618S-220MT	22±20%	350	1.84	2.30	1.40	1.80

MWSA0602S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA0602S-1R5MT	1.5±20%	18	10.00	12.00	7.00	8.00
MWSA0602S-4R7MT	4.7±20%	60	4.50	5.50	3.50	4.30
MWSA0602S-100MT	10±20%	145	3.20	4.00	2.20	2.80

MWSA0624S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA0624S-R22MT	0.22±20%	3	24.00	30.00	19.00	21.00
MWSA0624S-R33MT	0.33±20%	4.1	19.60	24.50	16.00	18.00
MWSA0624S-R47MT	0.47±20%	5.1	16.00	20.00	13.50	15.00
MWSA0624S-R56MT	0.56±20%	6.5	13.60	17.00	11.50	13.00
MWSA0624S-R68MT	0.68±20%	7	12.80	16.00	10.50	12.00
MWSA0624S-1R0MT	1.0±20%	13.5	12.00	15.00	8.00	9.00
MWSA0624S-1R5MT	1.5±20%	20	10.80	13.50	7.00	8.20
MWSA0624S-2R2MT	2.2±20%	28	8.00	10.00	6.20	7.00
MWSA0624S-3R3MT	3.3±20%	39	6.40	8.00	4.80	5.50
MWSA0624S-4R7MT	4.7±20%	50	5.20	6.50	4.30	5.00
MWSA0624S-6R8MT	6.8±20%	70	4.80	6.00	3.20	4.00
MWSA0624S-100MT	10±20%	101	3.30	4.00	2.40	3.10
MWSA0624S-150MT	15±20%	160	2.64	3.30	2.00	2.50
MWSA0624S-220MT	22±20%	230	2.00	2.50	1.60	2.00

规格特性
Specifications

MWSA0603S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V		Max.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA0603S-R10MT	0.10±20%	1.7	53.00	60.00	28.50	32.50
MWSA0603S-R12MT	0.12±20%	0.77±7%	30.00	40.00	32.00	38.00
MWSA0603S-R22MT	0.22±20%	3	27.20	34.00	21.00	24.00
MWSA0603S-R24MT	0.24±20%	3.1	22.40	28.00	18.40	23.00
MWSA0603S-R24MTY02	0.24±20%	1.19±7%	30.00	35.00	26.00	30.00
MWSA0603S-R33MT	0.33±20%	3.5	20.00	25.00	19.00	21.00
MWSA0603S-R47MT	0.47±20%	4.1	16.00	20.00	16.50	18.00
MWSA0603S-R56MT	0.56±20%	4.5	14.40	18.00	15.00	16.50
MWSA0603S-R68MT	0.68±20%	5.3	13.60	17.00	14.50	16.00
MWSA0603S-R82MT	0.82±20%	6.0	12.80	16.00	12.50	14.00
MWSA0603S-1R0MT	1.0±20%	7.4	12.00	15.00	10.50	12.00
MWSA0603S-1R5MT	1.5±20%	12.1	9.60	12.00	10.50	12.00
MWSA0603S-1R5MTB01	1.5±20%	11	11.2	14.0	9.50	10.50
MWSA0603S-1R8MT	1.8±20%	12.6	9.40	11.80	8.20	9.30
MWSA0603S-2R2MT	2.2±20%	15	8.00	10.00	8.50	9.50
MWSA0603S-3R3MT	3.3±20%	22	7.60	9.50	7.50	8.50
MWSA0603S-4R7MT	4.7±20%	33	7.20	9.00	5.00	6.00
MWSA0603S-5R6MT	5.6±20%	42	5.20	6.50	4.80	5.50
MWSA0603S-6R8MT	6.8±20%	48	4.80	6.00	4.20	5.00
MWSA0603S-8R2MT	8.2±20%	60	4.40	5.50	4.20	5.00
MWSA0603S-100MT	10±20%	68	4.40	5.50	3.80	4.50
MWSA0603S-150MT	15±20%	113	3.20	4.00	2.30	3.00
MWSA0603S-220MT	22±20%	170	2.40	3.00	2.00	2.50
MWSA0603S-330MT	33±20%	270	2.00	2.50	1.60	2.00
MWSA0603S-330MTB01	33±20%	210	2.00	2.50	1.70	2.20
MWSA0603S-470MT	47±20%	385	1.60	2.00	1.20	1.50

MWSA0605S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V		Max.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA0605S-R47MT	0.47±20%	3.9	16.80	21.00	17.00	20.00
MWSA0605S-R68MT	0.68±20%	4.5	14.40	18.00	14.50	16.50
MWSA0605S-1R0MT	1.0±20%	6.6	12.80	16.00	10.00	12.00
MWSA0605S-1R5MT	1.5±20%	10	10.40	13.00	8.20	9.50
MWSA0605S-2R2MT	2.2±20%	12.5	8.80	11.00	8.00	9.00
MWSA0605S-3R3MT	3.3±20%	22	8.00	10.00	7.60	8.50
MWSA0605S-4R7MT	4.7±20%	29	6.40	8.00	5.00	6.00
MWSA0605S-6R8MT	6.8±20%	41	5.04	6.30	4.00	5.80
MWSA0605S-8R2MT	8.2±20%	48	4.40	5.50	4.80	5.50
MWSA0605S-100MT	10±20%	60	4.24	5.30	3.80	4.50
MWSA0605S-150MT	15±20%	90	3.20	4.00	2.60	3.10
MWSA0605S-220MT	22±20%	140	2.80	3.50	2.00	2.60
MWSA0605S-330MT	33±20%	190	2.40	3.00	1.80	2.30
MWSA0605S-470MT	47±20%	230	2.08	2.60	1.50	2.00
MWSA0605S-680MT	68±20%	320	2.00	2.50	1.30	1.80

规格特性
Specifications

MWSA0804S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA0804S-R10MT	0.10±20%	1.6	68.00	72.00	35.00	40.00
MWSA0804S-R15MT	0.15±20%	1.65	65.00	70.00	33.00	39.00
MWSA0804S-R22MT	0.22±20%	1.8	55.00	60.00	30.00	36.00
MWSA0804S-R33MT	0.33±20%	2.4	40.00	45.00	25.00	30.00
MWSA0804S-R47MT	0.47±20%	2.8	36.00	42.00	25.00	28.00
MWSA0804S-R56MT	0.56±20%	3.2	23.00	26.00	22.00	24.00
MWSA0804S-R68MT	0.68±20%	3.8	22.00	24.00	21.00	23.00
MWSA0804S-R82MT	0.82±20%	4.4	19.00	21.00	19.00	21.00
MWSA0804S-1R0MT	1.0±20%	4.62	17.00	19.00	17.00	19.00
MWSA0804S-1R5MT	1.5±20%	7.6	15.00	17.00	15.00	17.00
MWSA0804S-1R8MT	1.8±20%	11	13.50	15.00	12.50	15.00
MWSA0804S-2R2MT	2.2±20%	11.4	12.00	14.00	12.00	14.00
MWSA0804S-3R3MT	3.3±20%	15	11.00	12.50	10.00	12.00
MWSA0804S-4R7MT	4.7±20%	26.5	10.50	11.50	8.50	9.50
MWSA0804S-5R6MT	5.6±20%	30	10.00	11.00	8.00	9.00
MWSA0804S-6R8MT	6.8±20%	36.8	8.00	9.00	7.00	8.00
MWSA0804S-8R2MT	8.2±20%	46	7.70	8.70	6.00	7.00
MWSA0804S-100MT	10±20%	59	7.00	8.00	5.50	6.50
MWSA0804S-150MT	15±20%	71	4.90	5.50	4.80	5.40
MWSA0804S-220MT	22±20%	113	4.50	5.00	4.20	4.80
MWSA0804S-330MT	33±20%	156	3.30	3.50	3.00	3.50
MWSA0804S-470MT	47±20%	225	2.90	3.10	2.50	2.90

MWSA1003S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA1003S-R22MT	0.22±20%	1.2	44.24	50.00	29.20	33.00
MWSA1003S-R33MT	0.33±20%	1.6	28.30	32.00	20.35	23.00
MWSA1003S-R36MT	0.36±20%	1.6	24.80	28.00	20.35	23.00
MWSA1003S-R47MT	0.47±20%	2.5	23.00	26.00	19.47	22.00
MWSA1003S-R82MT	0.82±20%	3.7	20.35	23.00	15.93	18.00
MWSA1003S-1R0MT	1.0±20%	6	18.58	21.00	13.27	15.00
MWSA1003S-1R5MT	1.5±20%	7.5	17.69	20.00	11.50	13.00
MWSA1003S-2R2MT	2.2±20%	9	12.38	14.00	9.73	11.00
MWSA1003S-3R3MT	3.3±20%	16	10.61	12.00	7.96	9.00
MWSA1003S-4R7MT	4.7±20%	22.5	8.84	10.00	6.19	7.00
MWSA1003S-8R2MT	8.2±20%	45	6.20	7.00	4.42	5.00
MWSA1003S-100MT	10±20%	55	5.75	6.50	3.98	4.50
MWSA1003S-150MT	15±20%	65	5.30	6.00	3.50	4.00
MWSA1003S-220MT	22±20%	99	4.40	5.00	2.65	3.00
MWSA1003S-330MT	33±20%	160	3.53	4.00	2.30	2.60

MWSA1004S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA1004S-R13MT	0.13±20%	0.55	63.00	92.00	63.00	72.00
MWSA1004S-R15MT	0.15±20%	0.65	60.00	75.00	40.00	45.00
MWSA1004S-R22MT	0.22±20%	1	48.00	60.00	30.00	35.00

规格特性
Specifications

MWSA1004S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA1004S-R30MT	0.30±20%	1.1	36.0	45.0	30.0	35.0
MWSA1004S-R33MT	0.33±20%	1.15	36.0	45.0	28.0	32.0
MWSA1004S-R36MT	0.36±20%	1.2	36.0	45.0	25.0	30.0
MWSA1004S-R45MT	0.45±20%	1.5	34.0	43.0	25.0	30.0
MWSA1004S-R47MT	0.47±20%	1.7	32.0	40.0	25.0	30.0
MWSA1004S-R56MT	0.56±20%	1.8	26.4	33.0	20.0	25.0
MWSA1004S-R68MT	0.68±20%	2.4	24.0	30.0	19.0	23.0
MWSA1004S-R80MT	0.80±20%	2.7	23.2	29.0	19.0	23.0
MWSA1004S-1R0MT	1.0±20%	3.3	22.4	28.0	16.0	19.0
MWSA1004S-1R5MT	1.5±20%	4.2	19.2	24.0	14.0	16.0
MWSA1004S-1R8MT	1.8±20%	4.5	16.0	20.0	14.0	16.0
MWSA1004S-2R2MT	2.2±20%	7	13.2	16.5	10.0	12.0
MWSA1004S-2R7MT	2.7±20%	12	14.4	18.0	10.0	12.0
MWSA1004S-3R3MT	3.3±20%	11.8	12.8	16.0	9.50	11.0
MWSA1004S-4R7MT	4.7±20%	20	10.4	13.0	7.50	9.00
MWSA1004S-6R8MT	6.8±20%	25	9.60	12.0	7.00	8.50
MWSA1004S-8R2MT	8.2±20%	27	7.20	9.00	6.80	8.00
MWSA1004S-100MT	10±20%	30	6.80	8.50	6.90	7.80
MWSA1004S-150MT	15±20%	45	5.60	7.00	5.60	6.50
MWSA1004S-220MT	22±20%	66	4.40	5.50	4.20	5.00
MWSA1004S-330MT	33±20%	92	3.84	4.80	3.80	4.40
MWSA1004S-470MT	47±20%	145	3.10	3.50	2.80	3.30
MWSA1004S-680MT	68±20%	195	2.40	3.00	2.00	2.50
MWSA1004S-820MT	82±20%	285	2.30	2.80	2.10	2.30
MWSA1004S-101MT	100±20%	340	2.10	2.30	1.80	2.00

MWSA1005S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA1005S-R22MT	0.22±20%	0.8	57.50	65.00	32.50	37.00
MWSA1005S-R47MT	0.47±20%	1.1	44.20	50.00	31.80	36.00
MWSA1005S-R68MT	0.68±20%	1.95	34.00	37.00	21.00	23.00
MWSA1005S-1R0MT	1.0±20%	3	28.00	30.00	20.30	23.00
MWSA1005S-1R5MT	1.5±20%	3.8	22.00	25.00	18.50	21.00
MWSA1005S-2R2MT	2.2±20%	6	16.80	19.00	13.20	15.00
MWSA1005S-3R3MT	3.3±20%	10	14.00	16.00	11.50	13.00
MWSA1005S-4R7MT	4.7±20%	14	13.20	15.00	9.70	11.00
MWSA1005S-5R6MT	5.6±20%	17	12.30	14.00	8.50	9.50
MWSA1005S-6R8MT	6.8±20%	18.5	12.30	14.00	8.00	9.00
MWSA1005S-100MT	10±20%	28	8.80	10.0	7.00	8.00
MWSA1005S-150MT	15±20%	42	6.50	7.50	5.70	6.50
MWSA1005S-220MT	22±20%	50	5.30	6.00	5.00	5.50
MWSA1005S-330MT	33±20%	86	4.60	5.20	4.20	4.80
MWSA1005S-470MT	47±20%	127	4.00	4.50	3.20	3.70
MWSA1005S-680MT	68±20%	185	2.80	3.20	2.40	2.70
MWSA1005S-820MT	82±20%	280	3.00	3.50	1.70	2.00
MWSA1005S-101MT	100±20%	290	2.50	2.80	1.80	2.10

Multilayer Chip Ferrite Inductor
Multilayer Chip Inductor for Choke
Multilayer Chip Power Inductor
Multilayer Ultra High Q Chip Ceramic Inductor
Multilayer High Q Chip Ceramic Inductor
Multilayer Chip Ceramic Inductor
Multilayer High Frequency Chip Ceramic Inductor
Wire Wound Chip Ferrite Inductor
SMD Power Inductor

规格特性 Specifications

MWSA1204S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA1204S-R22MT	0.22±20%	0.9	40.00	50.00	38.00	42.00
MWSA1204S-R47MT	0.47±20%	2	38.40	48.00	29.00	33.00
MWSA1204S-R68MT	0.68±20%	3.5	37.60	47.00	24.00	28.00
MWSA1204S-R82MT	0.82±20%	4.5	32.00	40.00	24.00	28.00
MWSA1204S-1R0MT	1.0±20%	7.5	28.00	35.00	20.00	24.00
MWSA1204S-1R5MT	1.5±20%	9.5	24.40	30.50	17.00	20.00
MWSA1204S-2R2MT	2.2±20%	11.5	20.80	26.00	15.00	18.00
MWSA1204S-3R3MT	3.3±20%	13	16.80	21.00	13.00	15.00
MWSA1204S-4R7MT	4.7±20%	14.5	14.40	18.00	11.00	13.00
MWSA1204S-6R8MT	6.8±20%	20	11.20	14.00	8.00	9.00
MWSA1204S-100MT	10±20%	25	8.00	10.00	7.00	8.00
MWSA1204S-150MT	15±20%	39	6.00	7.50	5.80	6.50
MWSA1204S-220MT	22±20%	51	4.80	6.00	3.80	4.50

MWSA1205S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA1205S-R22MT	0.22±20%	0.7	60.00	75.00	45.00	50.00
MWSA1205S-R36MT	0.36±20%	0.85	40.00	50.00	37.00	42.00
MWSA1205S-R50MT	0.50±20%	1.15	38.40	48.00	33.00	38.00
MWSA1205S-R68MT	0.68±20%	1.55	36.80	46.00	29.00	33.00
MWSA1205S-R82MT	0.82±20%	1.67	31.20	39.00	26.00	30.00
MWSA1205S-1R0MT	1.0±20%	2.2	28.00	35.00	22.00	26.00
MWSA1205S-1R5MT	1.5±20%	3.2	26.40	33.00	19.00	23.00
MWSA1205S-2R2MT	2.2±20%	5	19.20	24.00	13.00	15.00
MWSA1205S-3R3MT	3.3±20%	7	17.60	22.00	12.00	14.00
MWSA1205S-4R7MT	4.7±20%	9	16.00	20.00	11.00	13.00
MWSA1205S-6R8MT	6.8±20%	18	12.80	16.00	10.00	12.00
MWSA1205S-100MT	10±20%	22	9.60	12.00	8.00	9.00
MWSA1205S-150MT	15±20%	30	8.00	10.00	7.00	8.00
MWSA1205S-220MT	22±20%	58	5.20	6.50	3.80	4.50
MWSA1205S-330MT	33±20%	84	4.80	6.00	2.80	3.50
MWSA1205S-330MTY01	33±20%	63	4.80	6.00	2.80	3.50
MWSA1205S-470MT	47±20%	130	4.00	5.00	2.60	3.00

MWSA1206S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA1206S-1R5MT	1.5±20%	2.9	27.00	30.00	23.00	27.00
MWSA1206S-2R2MT	2.2±20%	4.2	24.00	28.00	18.00	22.00
MWSA1206S-3R3MT	3.3±20%	6.8	21.00	25.00	14.00	17.00
MWSA1206S-4R7MT	4.7±20%	9	19.20	24.00	12.00	15.00
MWSA1206S-5R6MT	5.6±20%	11	18.00	22.50	11.00	13.00
MWSA1206S-6R8MT	6.8±20%	13.5	15.20	19.00	10.00	12.00
MWSA1206S-8R2MT	8.2±20%	16	10.80	13.50	9.00	11.00

规格特性
Specifications

MWSA1206S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V		Max.	Typ.	Max.	Typ.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA1206S-100MT	10±20%	20.7	11.10	12.50	8.50	10.00
MWSA1206S-120MT	12±20%	23	8.00	10.00	7.80	9.00
MWSA1206S-150MT	15±20%	29	7.20	9.00	7.50	8.50
MWSA1206S-180MT	18±20%	35	6.40	8.00	6.50	7.50
MWSA1206S-220MT	22±20%	39.5	6.00	7.50	6.00	7.00
MWSA1206S-270MT	27±20%	56	5.20	6.50	5.00	6.00
MWSA1206S-330MT	33±20%	75	4.80	6.00	4.80	5.50
MWSA1206S-470MT	47±20%	90	4.40	5.50	4.20	5.00
MWSA1206S-680MT	68±20%	140	3.60	4.50	3.20	4.00
MWSA1206S-101MT	100±20%	200	2.80	3.50	2.50	3.00
MWSA1206S-121MT	120±20%	235	2.56	3.20	1.70	2.00
MWSA1206S-151MT	150±20%	350	2.16	2.70	1.20	1.50

MWSA1265S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V		Max.	Typ.	Max.	Typ.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA1265S-4R7MT	4.7±20%	8.5	19.00	24.00	12.00	16.00
MWSA1265S-5R6MT	5.6±20%	10.5	18.00	22.50	10.00	14.00
MWSA1265S-6R8MT	6.8±20%	12	15.00	19.00	9.00	13.00
MWSA1265S-8R2MT	8.2±20%	14	13.00	16.00	8.50	12.00
MWSA1265S-100MT	10±20%	16.5	12.00	15.00	7.50	11.00
MWSA1265S-150MT	15±20%	26	9.00	11.00	6.50	9.50
MWSA1265S-220MT	22±20%	36	7.50	9.00	6.00	8.00
MWSA1265S-330MT	33±20%	65	7.00	8.00	4.50	6.50
MWSA1265S-470MT	47±20%	70	5.50	6.80	4.00	5.50
MWSA1265S-470MTB01	47±20%	67	6.50	7.60	6.00	8.00
MWSA1265S-680MT	68±20%	120	4.00	5.20	3.40	4.80
MWSA1265S-820MT	82±20%	135	3.50	4.50	2.70	4.00
MWSA1265S-101MT	100±20%	170	3.20	4.00	1.80	3.50

MWSA1707S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V		Max.	Typ.	Max.	Typ.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA1707S-1R5MT	1.5±20%	2.1	35.00	40.00	29.00	33.00
MWSA1707S-2R2MT	2.2±20%	2.5	30.00	34.00	25.50	29.00
MWSA1707S-3R3MT	3.3±20%	3.95	26.00	30.00	21.00	24.00
MWSA1707S-4R7MT	4.7±20%	4.75	21.00	24.00	18.50	21.00
MWSA1707S-6R8MT	6.8±20%	7.5	19.50	22.00	15.00	17.00
MWSA1707S-8R2MT	8.2±20%	8.7	17.50	20.00	11.50	13.00
MWSA1707S-100MT	10±20%	9.9	16.50	19.00	10.50	12.00
MWSA1707S-150MT	15±20%	17	12.50	14.50	9.50	11.00
MWSA1707S-220MT	22±20%	23	10.00	11.50	7.50	8.50
MWSA1707S-330MT	33±20%	37	8.50	10.00	7.00	8.00
MWSA1707S-470MT	47±20%	47	6.50	7.50	5.30	6.00
MWSA1707S-560MT	56±20%	66	6.30	7.20	5.10	5.80
MWSA1707S-680MT	68±20%	85	5.50	6.50	4.50	5.20
MWSA1707S-820MT	82±20%	110	5.30	6.00	4.00	4.50
MWSA1707S-101MT	100±20%	130	4.40	5.00	3.20	3.70

规格特性 Specifications

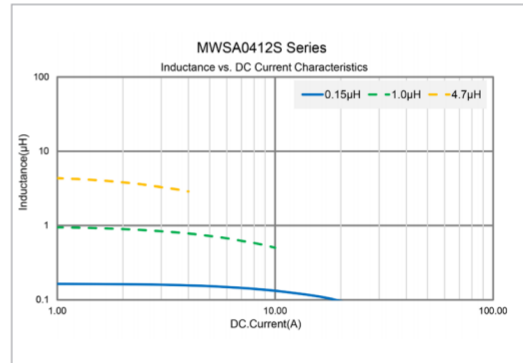
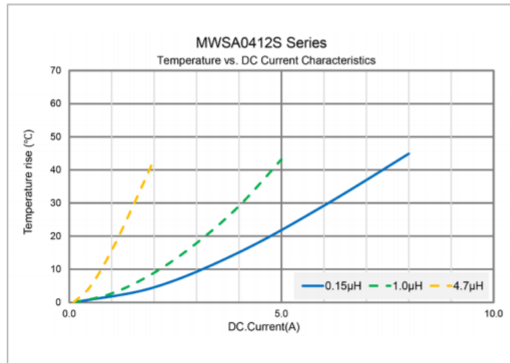
MWSA2213S Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	饱和电流 Saturation Current		温升电流 Heat Rating Current	
	@100KHz,1V		Max.	Typ.	Max.	Typ.
单位 Units	μH	mΩ	A		A	
符号 Symbol	L	DCR	Isat		Irms	
MWSA2213S-1R0MT	1.0±20%	0.95	54.00	60.00	65.00	70.00
MWSA2213S-1R5MT	1.5±20%	1.15	48.00	52.00	57.00	62.00
MWSA2213S-2R2MT	2.2±20%	1.25	43.00	48.00	52.00	58.00
MWSA2213S-3R3MT	3.3±20%	1.75	37.00	41.00	47.00	49.00
MWSA2213S-4R7MT	4.7±20%	2.2	34.00	38.00	44.00	47.00
MWSA2213S-6R8MT	6.8±20%	3.1	32.00	36.00	36.00	40.00
MWSA2213S-100MT	10±20%	4.15	20.00	28.00	30.00	33.00
MWSA2213S-150MT	15±20%	6.12	18.00	23.00	23.00	26.00
MWSA2213S-220MT	22±20%	11	14.00	15.00	18.00	22.00
MWSA2213S-330MT	33±20%	15.4	10.50	12.00	16.00	19.00
MWSA2213S-470MT	47±20%	20.8	10.00	12.00	14.00	17.00
MWSA2213S-680MT	68±20%	29.5	9.00	12.00	12.00	14.00
MWSA2213S-820MT	82±20%	34.2	7.70	9.00	10.00	12.00
MWSA2213S-101MT	100±20%	40	7.50	9.00	9.50	11.00

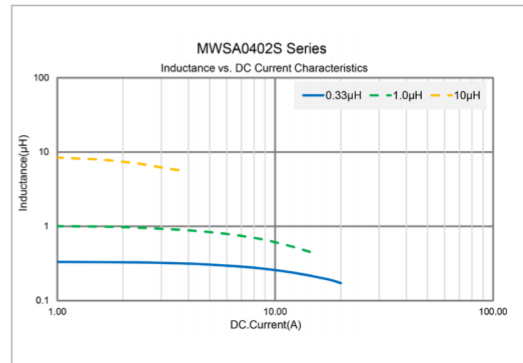
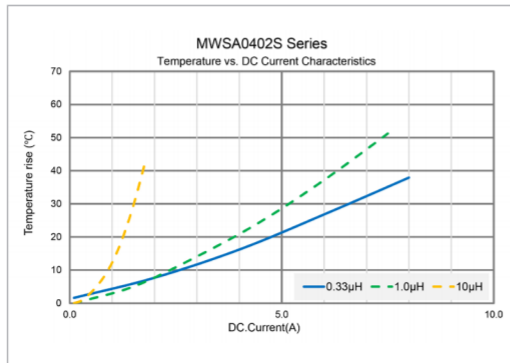
- ※1: 所有的测试数据均以 20°C 环境温度为准;
- ※1: All test data is referenced to 20°C ambient;
- ※2: 额定电流: 以 Isat 和 Irms 中更小者为准;
- ※2: Rated current: Isat or Irms, whichever is smaller;
- ※3: 饱和电流 (典型值): 通直流电使得没有通电时的感量下降 30% 左右时的电流;
- ※3: Isat(Typ): DC current at which the inductance drops approximate 30% from its value without current;
- ※4: 饱和电流 (最大值): 通直流电使得没有通电时的感量下降 30% 左右时的电流;
- ※4: Isat(Max): DC current at which the inductance drops approximate 30% from its value without current;
- ※5: 温升电流 (典型值): 使得温度从 20°C 环境温度升高 (ΔT=40°C) 的直流电流;
- ※5: Irms(Typ): DC current that causes the temperature rise (ΔT=40°C) from 20°C ambient.
- ※6: 温升电流 (最大值): 使得温度从 20°C 环境温度升高 (ΔT=20°C) 的直流电流;
- ※6: Irms(Max): DC current that causes the temperature rise (ΔT=20°C) from 20°C ambient.
- ※7: 最大绝对耐压值: 30VDC。
- ※7: Absolute maximum voltage 30VDC.

电气特性 Typical Electrical Characteristics

MWSA0412S Series

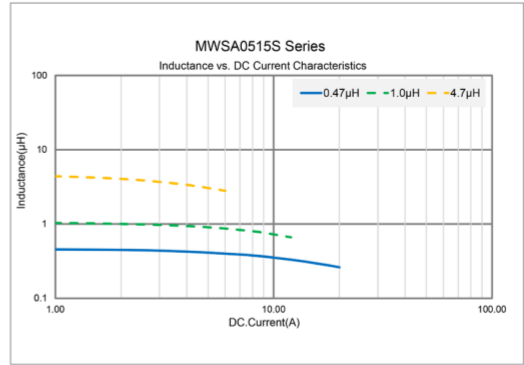
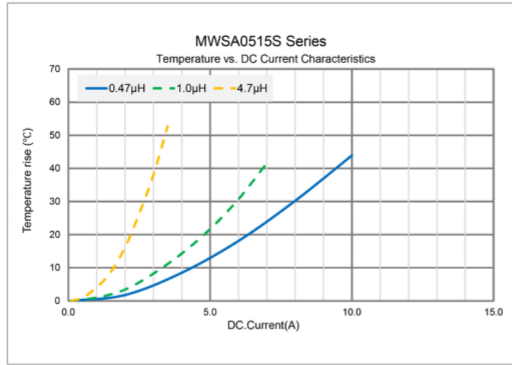


MWSA0402S Series

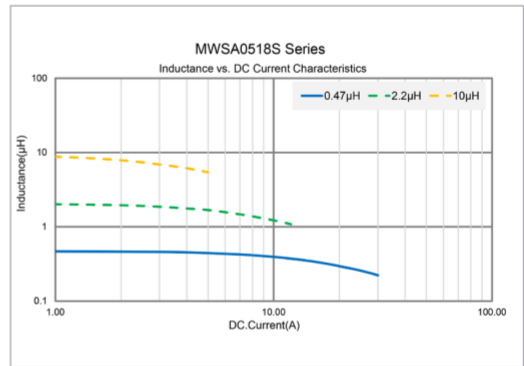
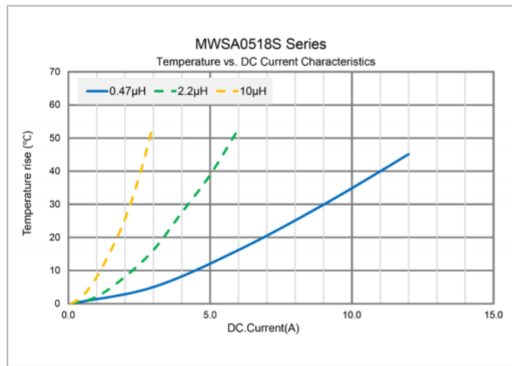


电气特性
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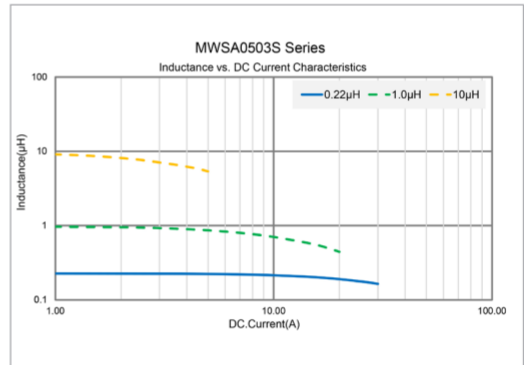
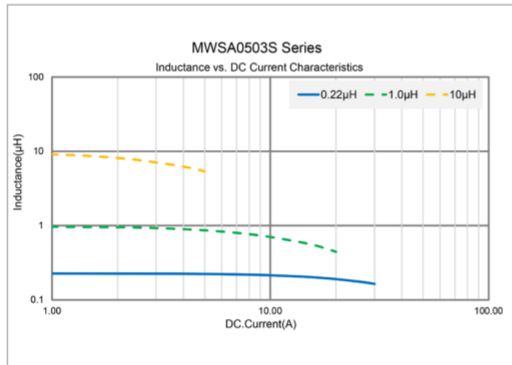
MWSA0515S Series



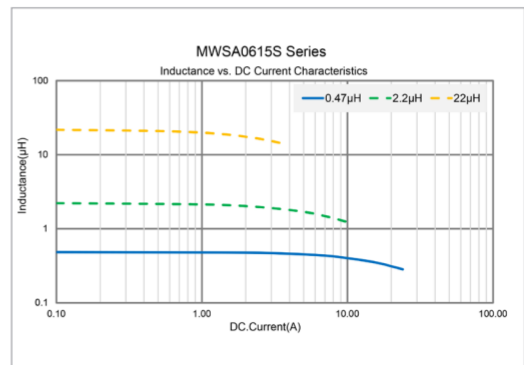
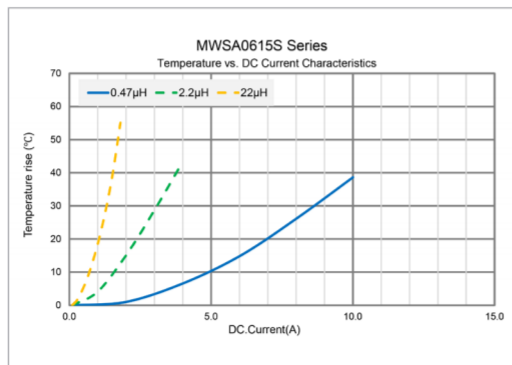
MWSA0518S Series



MWSA0503S Series

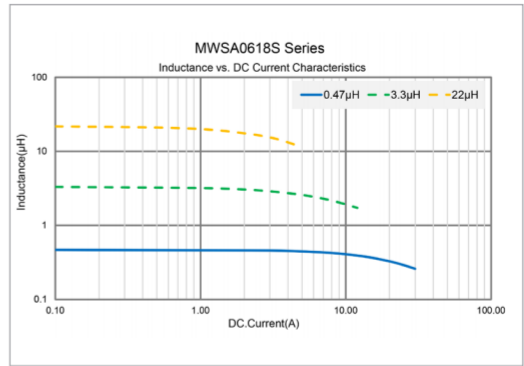
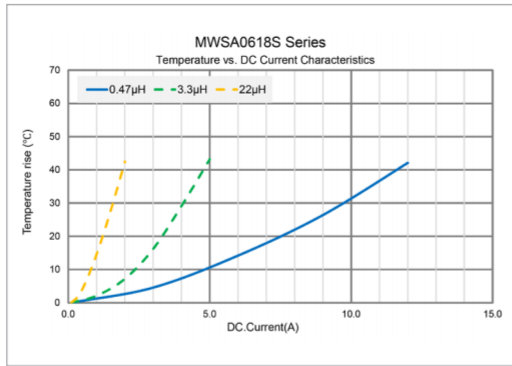


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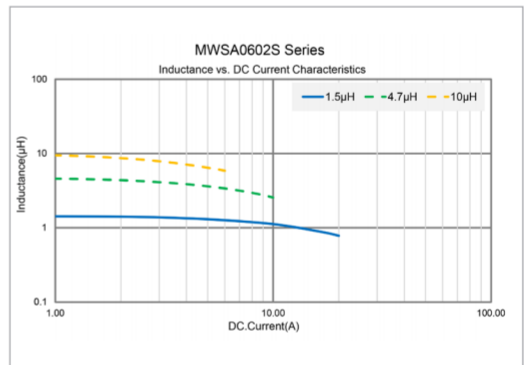
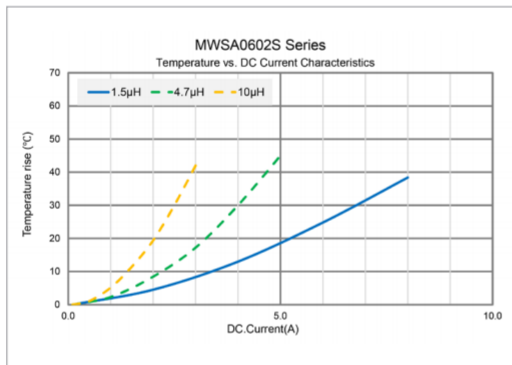


电气特性
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Characteristics

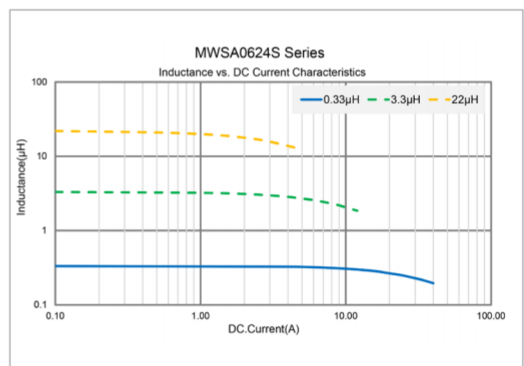
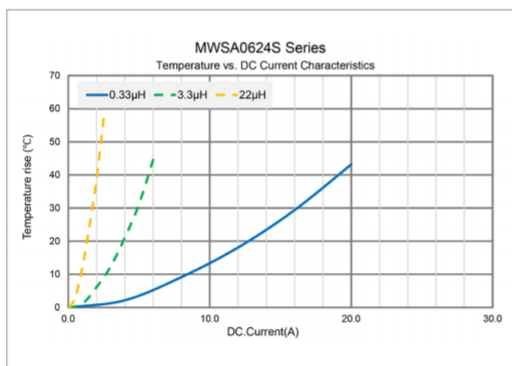
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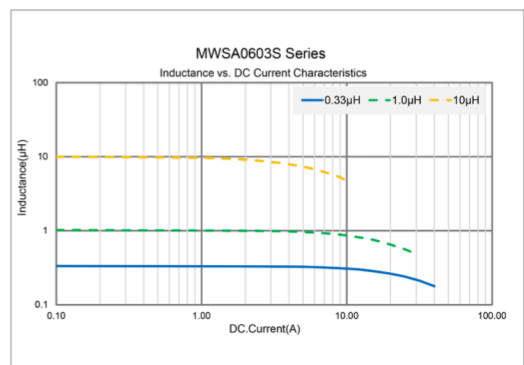
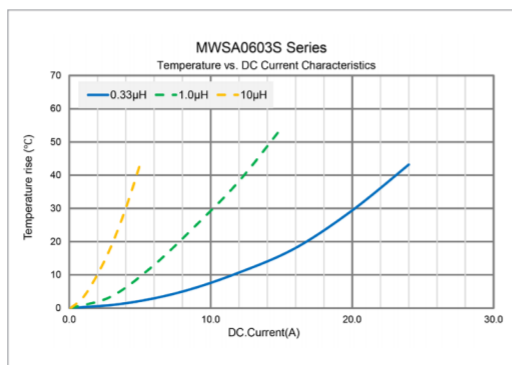
MWSA0602S Series



MWSA0624S Series

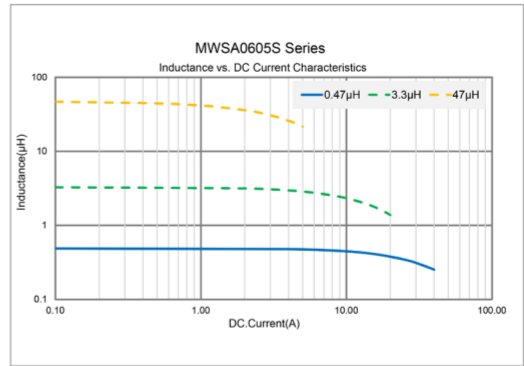
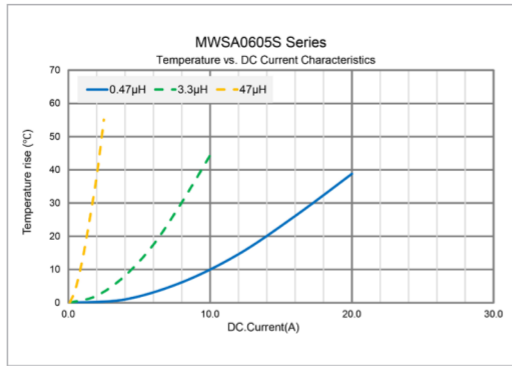


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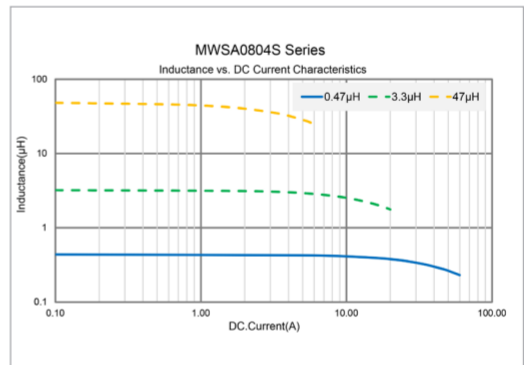
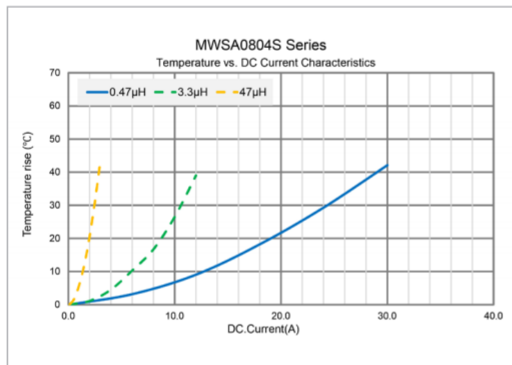


电气特性
Typical
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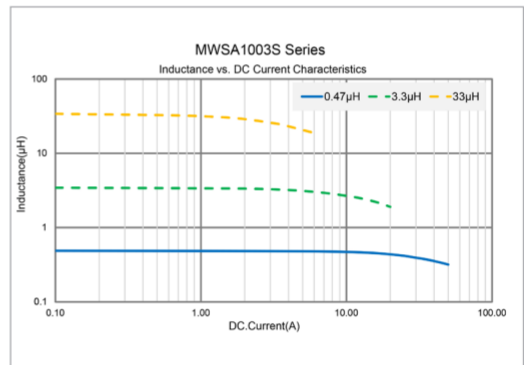
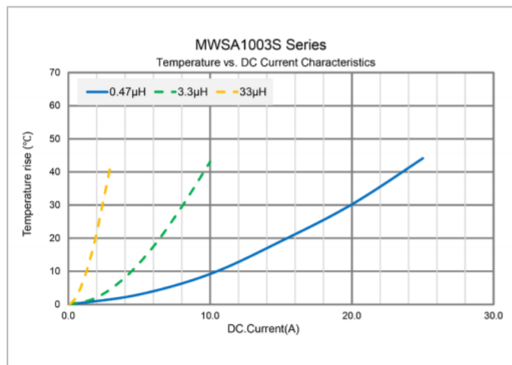
MWSA0605S Series



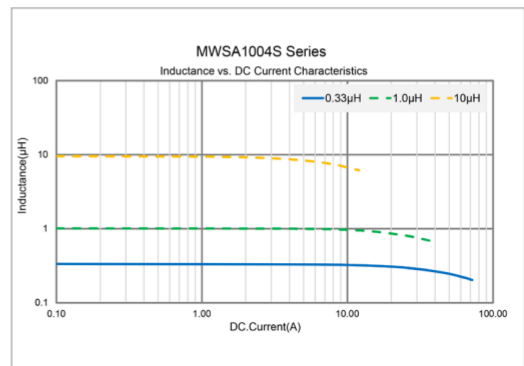
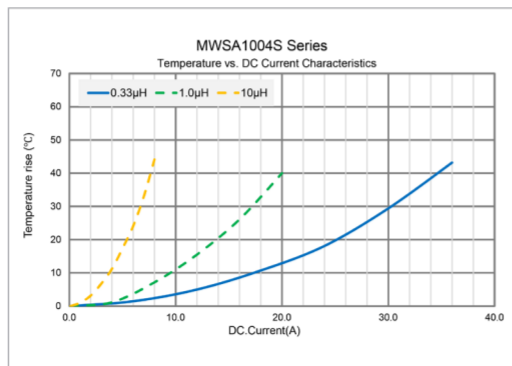
MWSA0804S Series



MWSA1003S Series

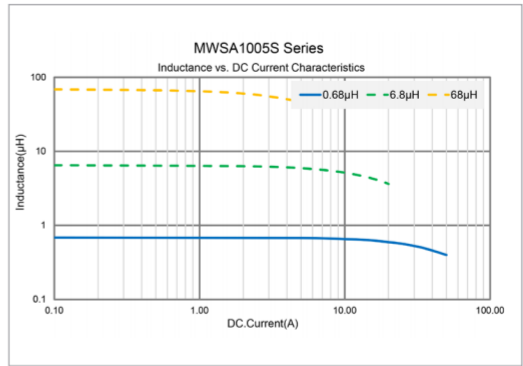
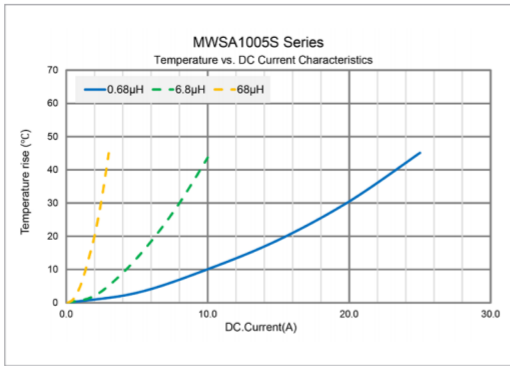


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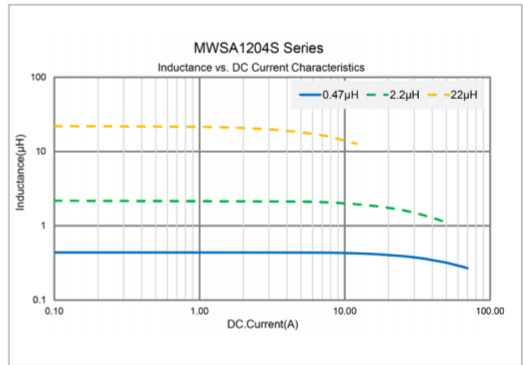
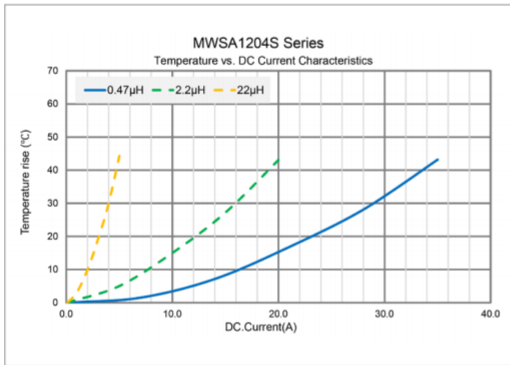


电气特性
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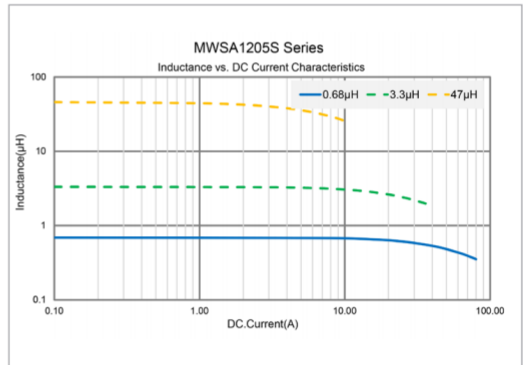
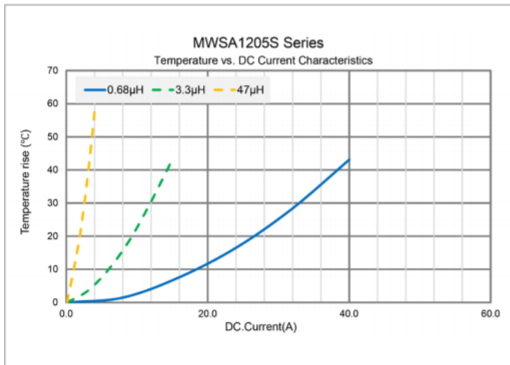
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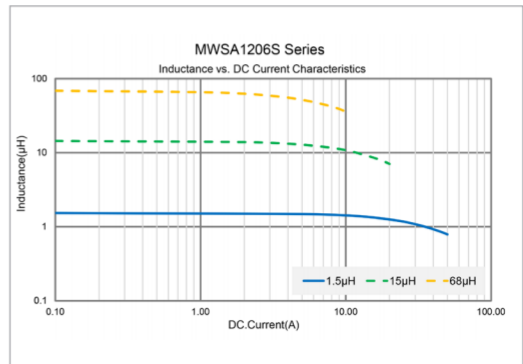
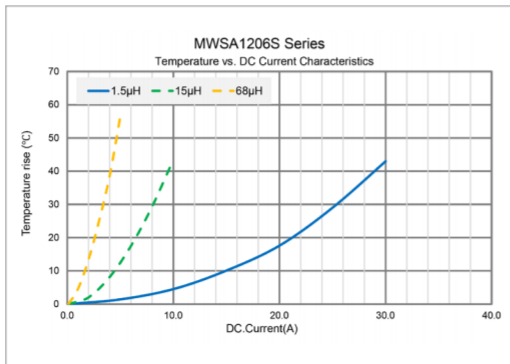
MWSA1204S Series



MWSA1205S Series

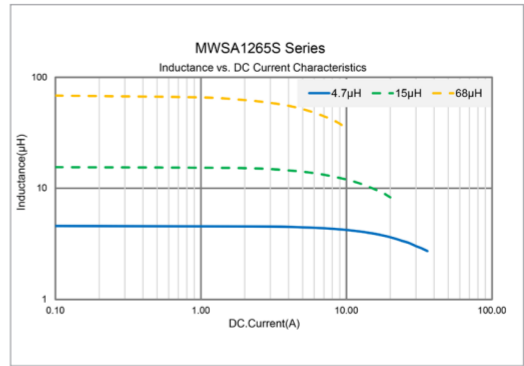
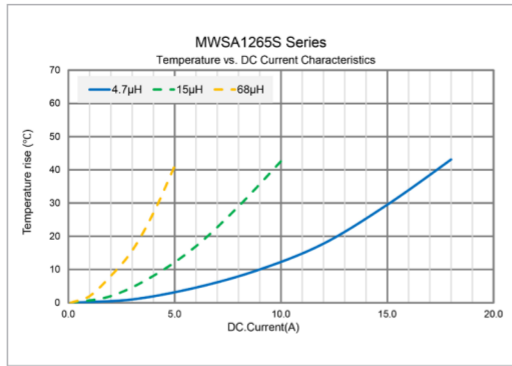


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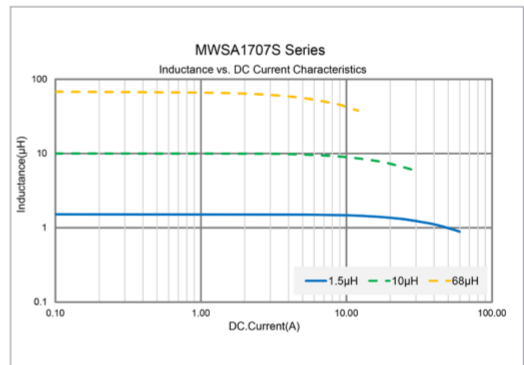
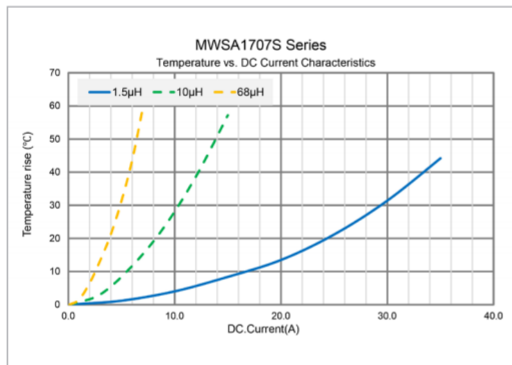


电气特性
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MWSA1265S Series



MWSA1707S Series



MWSA2213S Series

