

模压功率电感—MWLA-S 系列

Molded Power Inductors – MWLA-S Series



工作温度
Operating Temp

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

特征
Features

- ◆ 炭基粉材料, 高饱和电流, 低 DCR
- ◆ 优质材料, 磁损低, 效率高
- ◆ 一体化磁屏蔽结构, EMC 效果极佳
- ◆ 无卤, 符合 RoHS 标准
- ◆ Carbonyl powder for large current and low DCR
- ◆ High quality material, low magnetic loss and high efficiency
- ◆ Integrated magnetic shielding structure, excellent EMC effect
- ◆ Halogen free, RoHS compliant

用途
Applications

- ◆ 高频开关电源、UPS 电源显卡、音箱功放
- ◆ 笔记本电脑、平板电脑、电脑主机板
- ◆ 视像设备、仪器仪表、机顶盒、DVD 机
- ◆ High frequency switching power supply, UPS power supply graphics cards, audio amplifiers
- ◆ Notebooks, tablets, computer motherboard
- ◆ Video equipment, instrumentation, set-top boxes, DVD players

产品型号

Product Identification

1	2	3	4	5	6
MWLA	0402S	XXX	□	T	□□□

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

2	外形尺寸 (L×W×H) [mm] External Dimensions (L×W×H) [mm]
0415	4.2×4.4×1.3
0402	4.2×4.4×1.8
0502	5.2×5.7×1.8
0503	5.2×5.7×2.8
0618	6.6×7.3×1.6
0624	6.6×7.3×2.2
0603	6.6×7.3×2.8
0604	6.6×7.3×3.8
0605	6.6×7.05×4.8
1004	10.0×11.0×3.8
1005	10.0×11.0×4.8
1235	12.6×13.5×3.3
1250	12.6×13.5×4.7
1206	12.6×13.5×5.7
1265	12.6×13.5×6.2
1707	17.0×17.5×7.0

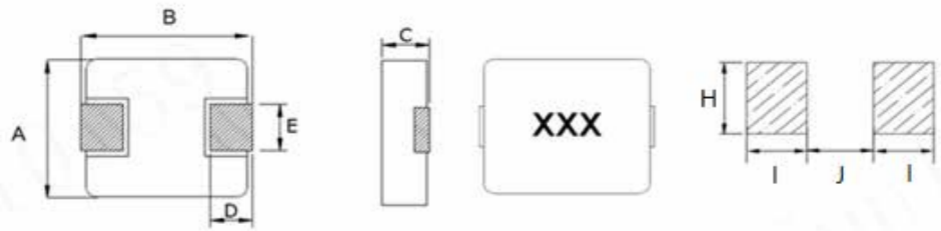
3	公称感量 Nominal Inductance [μH]
Example	Nominal Value [μH]
1R0	1.0μH
1R5	1.5μH

4	感量精度 Inductance Tolerance
M	±20%

5	包装 Packing
T	编带 Tape & Reel

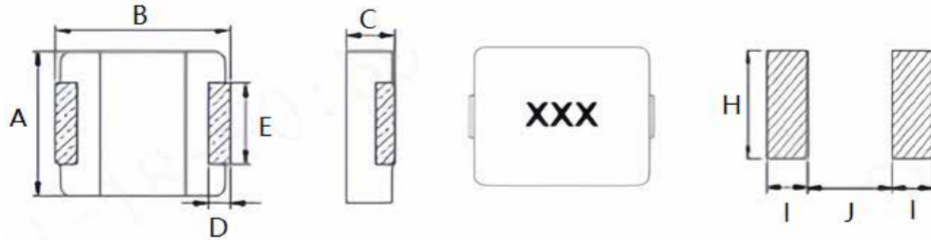
6	设计代号 Design Code
□□□	Design Code
* Standard product is blank	

外观尺寸 Shape and Dimensions



Remark: MWLA0415S ~ MWLA1265S Series

Recommended Land Pattern



Remark: MWLA1707S Series

Recommended Land Pattern

Unit: mm

Series	A	B	C	D	E	I Typ.	J Typ.	H Typ.
MWLA0415S	4.2±0.25	4.4±0.35	1.3±0.2	0.8±0.3	2.0±0.3	1.5	2.2	2.5
MWLA0402S	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
MWLA0502S	5.2±0.2	5.7±0.3	1.8±0.2	1.2±0.2	2.0±0.3	1.9	2.2	2.5
MWLA0503S	5.2±0.2	5.7±0.3	2.8±0.2	1.2±0.2	2.0±0.3	1.9	2.2	2.5
MWLA0618S	6.6±0.3	7.3±0.3	1.6±0.2	1.6±0.3	3.0±0.3	2.35	3.7	3.5
MWLA0624S	6.6±0.3	7.3±0.3	2.2±0.2	1.6±0.3	3.0±0.3	2.35	3.7	3.5
MWLA0603S	6.6±0.3	7.3±0.3	2.8±0.2	1.6±0.3	3.0±0.3	2.35	3.7	3.5
MWLA0604S	6.6±0.3	7.3±0.3	3.8±0.2	1.6±0.3	3.0±0.3	2.35	3.7	3.5
MWLA0605S	6.6±0.3	7.05±0.35	4.8±0.2	1.6±0.3	3.0±0.5	2.35	3.7	3.5
MWLA1004S	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
MWLA1005S	10.0±0.3	11.0±0.5	4.8±0.2	2.0±0.5	3.0±0.5	4.1	5.4	4.1
MWLA1235S	12.6±0.3	13.5±0.5	3.3±0.2	2.0±0.5	See Remark1	3.1	8.0	5.0
MWLA1250S	12.6±0.3	13.5±0.5	4.7±0.3	2.0±0.5	See Remark3	3.1	8.0	5.0
MWLA1206S	12.6±0.3	13.5±0.5	5.7±0.3	2.0±0.5	See Remark4	3.1	8.0	5.0
MWLA1265S	12.6±0.3	13.5±0.5	6.2±0.3	2.0±0.5	See Remark2	3.1	8.0	5.0
MWLA1707S	17.0±0.3	17.5±0.5	7.0 Max.	2.5±0.5	12.0±0.3	3.5	11.2	12.8

Remark1

E	Inductance
3.85±0.5	≤ 0.82 μH
4.7±0.5	> 0.82 μH

Remark2

E	Inductance
3.85±0.5	≤ 1.5 μH
4.7±0.5	> 1.5 μH

Remark3

E	Inductance
3.85±0.5	≤ 1.5 μH
4.7±0.5	> 1.5 μH

外观尺寸

Shape and Dimensions

Remark4

E	Inductance
3.85±0.5	≤ 1.5 μH
4.7±0.5	> 1.5 μH

规格特性

Specifications

MWLA0415S 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		耐受电压 @1mA/3S Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A		V
符号 Symbol	L	DCR	Isat		Irms		/
MWLA0415S-100MT	10±20%	400	1.7	1.9	1.0	1.5	50

MWLA0402S 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		耐受电压 @1mA/3S Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A		V
符号 Symbol	L	DCR	Isat		Irms		/
MWLA0402S-R22MT	0.22±20%	7.3	21.0	24.0	8.5	13.0	50
MWLA0402S-R33MT	0.33±20%	8.6	16.0	18.0	6.5	10.0	50
MWLA0402S-R47MT	0.47±20%	14	10.5	12.0	5.0	8.0	50
MWLA0402S-R68MT	0.68±20%	19	9.0	10.0	4.0	7.0	50
MWLA0402S-1R0MT	1.0±20%	27	7.5	8.5	3.0	5.0	50
MWLA0402S-1R5MT	1.5±20%	42	6.0	7.0	2.8	4.5	50
MWLA0402S-2R2MT	2.2±20%	61	5.0	6.0	2.4	4.0	50
MWLA0402S-3R3MT	3.3±20%	76	3.5	4.0	2.0	3.5	50
MWLA0402S-4R7MT	4.7±20%	105	3.0	3.5	1.7	2.6	50
MWLA0402S-6R8MT	6.8±20%	172	2.5	2.8	1.5	2.1	50
MWLA0402S-100MT	10±20%	243	2.0	2.3	1.2	1.8	50
MWLA0402S-150MT	15±20%	374	1.7	1.9	1.0	1.5	50
MWLA0402S-220MT	22±20%	500	1.2	1.4	0.8	1.2	50

MWLA0502S 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		耐受电压 @1mA/3S Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A		V
符号 Symbol	L	DCR	Isat		Irms		/
MWLA0502S-R10MT	0.10±20%	4	40.0	45.0	12.0	18.0	60
MWLA0502S-R15MT	0.15±20%	4.6	24.0	27.0	10.0	16.0	60
MWLA0502S-R22MT	0.22±20%	5.5	22.0	25.0	9.0	15.0	60
MWLA0502S-R33MT	0.33±20%	7.3	18.5	21.3	7.0	12.0	60
MWLA0502S-R47MT	0.47±20%	8.6	16.0	18.0	7.0	11.5	60
MWLA0502S-R56MT	0.56±20%	11	13.5	16.0	7.0	11.0	60
MWLA0502S-R68MT	0.68±20%	12.4	11.5	12.8	6.0	10.0	60
MWLA0502S-1R0MT	1.0±20%	20	12.0	13.7	5.0	7.0	60
MWLA0502S-1R5MT	1.5±20%	30.5	8.5	9.8	3.5	5.5	60
MWLA0502S-2R2MT	2.2±20%	50	8.0	9.0	3.0	4.2	60
MWLA0502S-3R3MT	3.3±20%	76	6.5	7.3	2.0	3.3	60
MWLA0502S-4R7MT	4.7±20%	116	4.5	5.0	1.8	2.8	60
MWLA0502S-6R8MT	6.8±20%	150	3.3	3.8	1.6	2.4	60
MWLA0502S-8R2MT	8.2±20%	171	3.0	3.5	1.5	2.3	60
MWLA0502S-100MT	10±20%	199	3.0	3.4	1.5	2.3	60
MWLA0502S-150MT	15±20%	270	2.5	2.8	1.1	1.9	60
MWLA0502S-220MT	22±20%	390	1.6	1.8	0.9	1.5	60

规格特性 Specifications

MWLA0503S 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		耐受电压 @1mA/3S Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A		V
符号 Symbol	L	DCR	Isat		Irms		/
MWLA0503S-R22MT	0.22±20%	4.4	18.5	21.0	11.5	15.5	60
MWLA0503S-R33MT	0.33±20%	5	16.0	18.0	9.0	14.0	60
MWLA0503S-R47MT	0.47±20%	7.4	14.0	16.0	7.0	12.0	60
MWLA0503S-R68MT	0.68±20%	12	12.0	14.0	5.5	8.5	60
MWLA0503S-R82MT	0.82±20%	13	11.0	12.5	4.5	8.0	60
MWLA0503S-1R0MT	1.0±20%	14	9.5	11.0	4.2	7.0	60
MWLA0503S-1R5MT	1.5±20%	25	8.8	10.0	3.8	6.0	60
MWLA0503S-2R2MT	2.2±20%	35	8.0	9.0	3.3	5.5	60
MWLA0503S-3R3MT	3.3±20%	38	7.0	8.0	3.1	5.0	60
MWLA0503S-4R7MT	4.7±20%	53	5.3	6.0	3.0	4.6	60
MWLA0503S-5R6MT	5.6±20%	63	4.0	4.5	2.9	4.25	60
MWLA0503S-6R8MT	6.8±20%	76.2	3.8	4.3	2.6	4.0	60
MWLA0503S-100MT	10±20%	128	3.1	3.5	1.7	2.75	60
MWLA0503S-100MTB01	10±20%	120	3.5	4.0	2.0	3.5	60
MWLA0503S-150MT	15±20%	190	2.3	2.6	1.4	2.1	60
MWLA0503S-220MT	22±20%	250	1.5	1.7	1.3	1.9	60

MWLA0618S 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		耐受电压 @1mA/3S Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A		V
符号 Symbol	L	DCR	Isat		Irms		/
MWLA0618S-R10MT	0.1±20%	2.3	33.0	38.0	19.0	25.0	60
MWLA0618S-R15MT	0.15±20%	2.6	30.0	34.0	14.0	18.0	60
MWLA0618S-R22MT	0.22±20%	3	23.0	26.0	13.0	16.0	60
MWLA0618S-R33MT	0.33±20%	5.8	19.5	22.0	10.0	14.0	60
MWLA0618S-R47MT	0.47±20%	7.4	16.0	18.0	9.5	12.0	60
MWLA0618S-R68MT	0.68±20%	11	15.0	17.0	6.5	10.0	60
MWLA0618S-R82MT	0.82±20%	14	13.5	15.5	5.5	8.5	60
MWLA0618S-1R0MT	1.0±20%	17	12.5	14.0	4.5	7.0	60
MWLA0618S-1R5MT	1.5±20%	25.2	11.5	13.0	3.8	6.0	60
MWLA0618S-2R2MT	2.2±20%	35	10.0	11.0	3.8	6.0	60
MWLA0618S-3R3MT	3.3±20%	46	8.0	9.0	3.2	5.0	60
MWLA0618S-4R7MT	4.7±20%	76	6.2	7.0	2.5	4.0	60
MWLA0618S-6R8MT	6.8±20%	104	4.8	5.5	2.1	3.0	60
MWLA0618S-100MT	10±20%	160	3.0	3.5	1.5	2.3	60

MWLA0624S 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		耐受电压 @1mA/3S Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A		V
符号 Symbol	L	DCR	Isat		Irms		/
MWLA0624S-R15MT	0.15±20%	2.3	39.0	45.0	18.5	30.0	80
MWLA0624S-R22MT	0.22±20%	3.2	30.0	34.0	14.0	21.0	80
MWLA0624S-R33MT	0.33±20%	4.4	27.0	30.0	12.0	18.0	80
MWLA0624S-R47MT	0.47±20%	5.1	23.0	26.0	10.0	15.0	80
MWLA0624S-R68MT	0.68±20%	7.2	18.5	21.0	9.0	13.0	80
MWLA0624S-R82MT	0.82±20%	9.5	15.5	17.0	7.0	11.0	80
MWLA0624S-1R0MT	1.0±20%	13.5	14.0	16.0	6.5	10.0	80
MWLA0624S-1R5MT	1.5±20%	20	13.0	15.0	6.0	9.0	80
MWLA0624S-2R2MT	2.2±20%	28	12.0	14.0	4.5	7.0	80
MWLA0624S-3R3MT	3.3±20%	39	9.0	10.0	4.0	6.0	80
MWLA0624S-4R7MT	4.7±20%	50	8.0	9.0	3.5	5.5	80
MWLA0624S-6R8MT	6.8±20%	72	6.0	7.0	2.5	4.0	80
MWLA0624S-100MT	10±20%	101	4.5	5.0	1.9	3.2	80

规格特性 Specifications

MWLA0603S 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		耐受电压 @1mA/3S Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A		V
符号 Symbol	L	DCR	Isat		Irms		/
MWLA0603S-R10NT	0.10±30%	1.7	53.0	60.0	23.0	32.5	100
MWLA0603S-R15MT	0.15±20%	1.9	40.0	45.0	24.0	27.0	100
MWLA0603S-R15MTB01	0.15±20%	0.9±7%	41.0	45.0	34.0	37.0	100
MWLA0603S-R20MT	0.20±20%	2.7	36.0	41.0	15.0	24.0	100
MWLA0603S-R22MT	0.22±20%	2.8	35.0	40.0	14.5	23.0	100
MWLA0603S-R33MT	0.33±20%	3.9	28.0	32.0	12.5	20.0	100
MWLA0603S-R47MT	0.47±20%	4.2	23.0	26.0	12.0	17.5	100
MWLA0603S-R56MT	0.56±20%	5	23.0	25.5	11.0	16.5	100
MWLA0603S-R68MT	0.68±20%	5.5	22.0	25.0	13.5	15.5	100
MWLA0603S-R82MT	0.82±20%	8	21.0	24.0	9.0	13.0	100
MWLA0603S-1R0MT	1.0±20%	10	19.4	22.0	9.7	11.0	100
MWLA0603S-1R2MT	1.2±20%	12	17.5	20.0	6.0	10.0	100
MWLA0603S-1R5MT	1.5±20%	15	16.0	18.0	5.8	9.0	100
MWLA0603S-2R0MT	2.0±20%	19	13.5	15.0	5.5	8.2	100
MWLA0603S-2R2MT	2.2±20%	20	12.5	14.0	5.2	8.0	100
MWLA0603S-3R3MT	3.3±20%	30	12.0	13.5	3.5	6.0	100
MWLA0603S-4R7MT	4.7±20%	40	8.8	10.0	3.2	5.5	100
MWLA0603S-5R6MT	5.6±20%	48	8.0	9.0	3.0	5.0	100
MWLA0603S-6R8MT	6.8±20%	60	7.0	8.0	2.8	4.5	100
MWLA0603S-8R2MT	8.2±20%	68	6.5	7.5	2.5	4.0	100
MWLA0603S-100MT	10±20%	85	5.5	6.0	2.4	3.5	100
MWLA0603S-150MT	15±20%	123	3.5	4.0	2.6	3.0	100
MWLA0603S-220MT	22±20%	190	3.0	3.5	1.2	2.0	100
MWLA0603S-330MT	33±20%	240	2.2	2.5	1.2	2.0	100
MWLA0603S-470MT	47±20%	363	1.8	2.0	1.1	1.75	100

MWLA0604S 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		耐受电压 @1mA/3S Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A		V
符号 Symbol	L	DCR	Isat		Irms		/
MWLA0604S-R22MT	0.22±20%	0.98±5%	44.5	50.0	28.5	32.0	100
MWLA0604S-R47MT	0.47±20%	3.4	25.0	28.0	16.0	23.0	100
MWLA0604S-R56MT	0.56±20%	4.3	23.0	26.0	13.5	20.0	100

MWLA0605S 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		耐受电压 @1mA/3S Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A		V
符号 Symbol	L	DCR	Isat		Irms		/
MWLA0605S-R22MT	0.22±20%	1.4	/	50.0	/	30.0	100
MWLA0605S-R33MT	0.33±20%	3	/	32.0	/	25.0	100
MWLA0605S-R36MT	0.36±20%	3.4	/	32.0	/	24.0	100
MWLA0605S-R47MT	0.47±20%	3.9	/	30.0	/	22.0	100
MWLA0605S-R68MT	0.68±20%	4.5	/	24.0	/	18.0	100
MWLA0605S-R82MT	0.82±20%	4.9	/	22.0	/	16.5	100
MWLA0605S-1R0MT	1.0±20%	6.5	/	20.0	/	15.0	100
MWLA0605S-1R2MT	1.2±20%	7.5	/	18.0	/	14.0	100
MWLA0605S-1R5MT	1.5±20%	9	/	16.5	/	12.0	100
MWLA0605S-2R2MT	2.2±20%	12	/	14.0	/	10.0	100
MWLA0605S-3R3MT	3.3±20%	20.9	/	12.0	/	8.0	100
MWLA0605S-4R7MT	4.7±20%	30.8	/	10.0	/	6.5	100

规格特性 Specifications

MWLA0605S 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		耐受电压 @1mA/3S Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A		V
符号 Symbol	L	DCR	Isat		Irms		/
MWLA0605S-5R6MT	5.6±20%	49	/	9.0	/	6.0	100
MWLA0605S-6R8MT	6.8±20%	51.5	/	8.5	/	5.5	100
MWLA0605S-8R2MT	8.2±20%	63	/	8.0	/	5.0	100
MWLA0605S-100MT	10±20%	69	/	7.5	/	4.0	100
MWLA0605S-150MT	15±20%	92	/	6.0	/	3.5	100
MWLA0605S-220MT	22±20%	170	/	5.5	/	2.5	100
MWLA0605S-330MT	33±20%	200	/	3.5	/	2.0	100

MWLA1004S 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		耐受电压 @1mA/3S Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A		V
符号 Symbol	L	DCR	Isat		Irms		/
MWLA1004S-R12MT	0.12±20%	0.4±7%	62.0	70.0	18.0	28.0	100
MWLA1004S-R19MT	0.19±20%	0.95	80.0	90.0	26.0	40.0	100
MWLA1004S-R22MT	0.22±20%	1	53.0	60.0	24.0	35.0	100
MWLA1004S-R36MT	0.36±20%	1.2	53.0	60.0	21.0	31.0	100
MWLA1004S-R45MT	0.45±20%	1.5	40.0	45.0	18.0	29.0	100
MWLA1004S-R47MT	0.47±20%	1.5	38.0	43.0	18.0	28.0	100
MWLA1004S-R56MT	0.56±20%	1.8	35.0	40.0	17.0	25.0	100
MWLA1004S-R68MT	0.68±20%	2.7	34.0	39.0	14.0	22.0	100
MWLA1004S-1R0MT	1.0±20%	3.3	32.0	36.0	11.0	18.0	100
MWLA1004S-1R2MT	1.2±20%	4	29.0	33.0	10.5	17.0	100
MWLA1004S-1R5MT	1.5±20%	4.6	29.0	33.0	10.0	16.0	100
MWLA1004S-2R2MT	2.2±20%	7	24.0	27.0	7.5	12.0	100
MWLA1004S-3R3MT	3.3±20%	11.8	18.0	20.0	7.0	11.0	100
MWLA1004S-4R7MT	4.7±20%	15.5	15.0	17.0	6.5	10.0	100
MWLA1004S-5R6MT	5.6±20%	19.3	13.0	14.0	5.7	9.0	100
MWLA1004S-6R8MT	6.8±20%	23.3	12.0	13.5	5.5	8.5	100
MWLA1004S-100MT	10±20%	30	11.0	12.0	4.5	7.5	100
MWLA1004S-150MT	15±20%	45	9.0	10.0	4.5	6.25	100
MWLA1004S-220MT	22±20%	74	6.0	7.0	3.0	5.0	100
MWLA1004S-330MT	33±20%	112	4.5	5.0	2.0	3.5	100
MWLA1004S-470MT	47±20%	167	4.0	4.5	1.5	3.0	100

MWLA1005S 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		耐受电压 @1mA/3S Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A		V
符号 Symbol	L	DCR	Isat		Irms		/
MWLA1005S-220MT	22±20%	60	9.0	10.0	3.2	5.0	100
MWLA1005S-330MT	33±20%	92	6.5	7.5	2.8	4.3	100

MWLA1235S 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		耐受电压 @1mA/3S Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A		V
符号 Symbol	L	DCR	Isat		Irms		/
MWLA1235S-R33MT	0.33±20%	1.5	55.0	62.0	23.0	36.5	100
MWLA1235S-R47MT	0.47±20%	2	49.0	55.0	21.0	32.0	100
MWLA1235S-R68MT	0.68±20%	2.5	44.0	49.0	17.0	28.0	100
MWLA1235S-R82MT	0.82±20%	3	39.0	44.0	16.0	25.0	100

规格特性 Specifications

MWLA1235S 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		耐受电压 @1mA/3S Withstanding Voltage @1mA/3S
	@100KHz, 1V	Max.	Max.	Typ.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A		V
符号 Symbol	L	DCR	Isat		Irms		/
MWLA1235S-1R0MT	1.0±20%	3.5	35.0	40.0	15.0	24.0	100
MWLA1235S-1R5MT	1.5±20%	5.5	32.0	35.0	11.0	19.0	100
MWLA1235S-2R2MT	2.2±20%	8	26.0	29.0	10.0	16.0	100
MWLA1235S-3R3MT	3.3±20%	12	24.0	27.0	7.5	12.0	100
MWLA1235S-4R7MT	4.7±20%	18	20.0	22.0	5.5	9.0	100
MWLA1235S-5R6MT	5.6±20%	22	17.0	19.0	5.5	9.5	100
MWLA1235S-6R8MT	6.8±20%	24	16.0	18.0	5.0	9.0	100
MWLA1235S-8R2MT	8.2±20%	28	14.0	16.0	5.0	8.5	100
MWLA1235S-100MT	10±20%	34	12.0	14.0	4.5	7.5	100
MWLA1235S-150MT	15±20%	65	9.0	10.0	4.2	6.5	100
MWLA1235S-220MT	22±20%	99	6.0	7.0	3.0	4.5	100
MWLA1235S-330MT	33±20%	160	5.0	6.0	2.0	3.5	100
MWLA1235S-470MT	47±20%	218	5.0	5.5	1.8	3.0	100

MWLA1250S 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		耐受电压 @1mA/3S Withstanding Voltage @1mA/3S
	@100KHz, 1V	Max.	Max.	Typ.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A		V
符号 Symbol	L	DCR	Isat		Irms		/
MWLA1250S-R33MT	0.33±20%	0.9	71.0	80.0	30.0	42.0	100
MWLA1250S-R47MT	0.47±20%	1.1	58.0	65.0	27.0	38.0	100
MWLA1250S-R56MT	0.56±20%	1.5	49.0	55.0	25.0	36.0	100
MWLA1250S-R68MT	0.68±20%	1.7	48.0	54.0	22.0	34.0	100
MWLA1250S-R82MT	0.82±20%	2.1	46.0	52.0	20.0	31.0	100
MWLA1250S-1R0MT	1.0±20%	2.5	44.0	50.0	19.0	29.0	100
MWLA1250S-1R5MT	1.5±20%	3.3	42.0	48.0	17.0	27.0	100
MWLA1250S-2R2MT	2.2±20%	5.5	32.0	32.0	12.0	20.0	100
MWLA1250S-3R3MT	3.3±20%	9.2	28.0	32.0	9.0	15.0	100
MWLA1250S-4R7MT	4.7±20%	15	24.0	27.0	7.5	12.0	100
MWLA1250S-5R6MT	5.6±20%	16.5	20.0	22.0	7.0	11.5	100
MWLA1250S-6R8MT	6.8±20%	18.5	19.0	21.0	7.0	11.0	100
MWLA1250S-8R2MT	8.2±20%	22.5	16.0	18.0	6.5	9.5	100
MWLA1250S-100MT	10±20%	25.5	14.0	16.0	6.0	9.0	100
MWLA1250S-150MT	15±20%	38	12.0	13.0	5.0	8.2	100
MWLA1250S-220MT	22±20%	58	9.0	10.0	4.0	6.5	100
MWLA1250S-330MT	33±20%	88	7.0	8.0	3.0	5.0	100

MWLA1206S 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		耐受电压 @1mA/3S Withstanding Voltage @1mA/3S
	@100KHz, 1V	Max.	Max.	Typ.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A		V
符号 Symbol	L	DCR	Isat		Irms		/
MWLA1206S-R47MT	0.47±20%	1.3	58.0	64.0	24.0	38.0	100
MWLA1206S-R68MT	0.68±20%	1.7	51.0	57.0	21.0	33.0	100
MWLA1206S-1R0MT	1.0±20%	2.4	47.0	53.0	19.0	29.0	100
MWLA1206S-1R5MT	1.5±20%	3.2	44.0	50.0	18.0	26.0	100
MWLA1206S-2R2MT	2.2±20%	4.7	38.0	43.0	14.0	21.0	100
MWLA1206S-3R3MT	3.3±20%	7.1	31.0	35.0	11.0	17.0	100
MWLA1206S-4R7MT	4.7±20%	11.5	27.0	30.0	10.0	16.0	100
MWLA1206S-6R8MT	6.8±20%	13.8	22.0	25.0	9.5	15.0	100
MWLA1206S-8R2MT	8.2±20%	16	20.0	23.0	7.0	11.0	100
MWLA1206S-100MT	10±20%	20.7	19.0	21.0	7.0	11.0	100

规格特性 Specifications

MWLA1206S 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		耐受电压 @1mA/3S Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A		V
符号 Symbol	L	DCR	Isat		Irms		/
MWLA1206S-150MT	15±20%	29	14.0	16.0	5.5	9.0	100
MWLA1206S-220MT	22±20%	39.5	12.0	14.0	5.0	8.0	100
MWLA1206S-330MT	33±20%	75	11.0	12.0	3.8	6.0	100
MWLA1206S-470MT	47±20%	90	10.0	11.0	3.5	5.5	100
MWLA1206S-680MT	68±20%	140	8.0	9.0	3.3	5.0	100
MWLA1206S-820MT	82±20%	161	7.5	8.5	3.0	4.5	100
MWLA1206S-101MT	100±20%	200	7.0	8.0	2.7	4.0	100
MWLA1206S-121MT	120±20%	235	6.0	7.0	2.2	3.5	100
MWLA1206S-151MT	150±20%	350	5.5	6.0	1.7	3.0	100

MWLA1265S 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		耐受电压 @1mA/3S Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A		V
符号 Symbol	L	DCR	Isat		Irms		/
MWLA1265S-R33MT	0.33±20%	0.8	60.0	68.0	30.0	46.0	100
MWLA1265S-R47MT	0.47±20%	1.2	56.0	63.0	29.0	41.0	100
MWLA1265S-R56MT	0.56±20%	1.4	51.0	58.0	18.0	31.0	100
MWLA1265S-R68MT	0.68±20%	1.5	49.0	55.0	22.0	35.0	100
MWLA1265S-R68MTB01	0.68±20%	1.5	49.0	60.0	22.0	35.0	100
MWLA1265S-1R0MT	1.0±20%	2.3	43.0	48.0	20.0	30.0	100
MWLA1265S-1R5MT	1.5±20%	3	40.0	45.0	17.0	27.0	100
MWLA1265S-2R2MT	2.2±20%	4.2	32.0	37.0	19.0	22.0	100
MWLA1265S-2R7MT	2.7±20%	5.5	29.0	32.0	12.0	20.0	100
MWLA1265S-3R3MT	3.3±20%	6.8	27.0	30.0	11.0	18.0	100
MWLA1265S-4R7MT	4.7±20%	8.4	25.0	28.0	8.0	13.5	100
MWLA1265S-6R8MT	6.8±20%	11.5	16.0	18.0	7.0	11.5	100
MWLA1265S-8R2MT	8.2±20%	15.5	14.0	16.0	6.5	10.5	100
MWLA1265S-100MT	10±20%	16.5	13.5	15.5	6.2	10.0	100
MWLA1265S-150MT	15±20%	28	12.0	13.0	6.0	9.0	100
MWLA1265S-150MTB01	15±20%	28	16.0	18.0	6.0	9.0	100
MWLA1265S-220MT	22±20%	37	11.0	12.0	6.0	9.0	100
MWLA1265S-330MT	33±20%	58	10.0	11.0	5.0	8.0	100
MWLA1265S-470MT	47±20%	90	8.5	9.5	4.0	6.5	100
MWLA1265S-680MT	68±20%	130	7.0	7.8	3.0	4.8	100

MWLA1707S 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		耐受电压 @1mA/3S Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A		V
符号 Symbol	L	DCR	Isat		Irms		/
MWLA1707S-1R0MT	1.0±20%	2	53.0	60.0	33.0	52.0	100
MWLA1707S-1R5MT	1.5±20%	2.5	46.0	52.0	32.0	47.0	100
MWLA1707S-1R5MTY01	1.5±20%	1.5	46.0	52.0	32.0	47.0	100
MWLA1707S-2R2MT	2.2±20%	2.7	42.0	47.0	31.0	43.5	100
MWLA1707S-3R3MT	3.3±20%	3.9	40.0	45.0	17.0	28.0	100
MWLA1707S-4R7MT	4.7±20%	5.5	36.0	41.0	16.0	25.0	100
MWLA1707S-5R6MT	5.6±20%	7.05	40.0	45.0	13.0	21.0	100
MWLA1707S-6R8MT	6.8±20%	9.2	28.0	32.0	12.0	19.0	100
MWLA1707S-8R2MT	8.2±20%	10.8	22.0	25.0	11.5	18.0	100
MWLA1707S-100MT	10±20%	13	21.0	24.0	11.2	16.5	100
MWLA1707S-150MT	15±20%	20.5	20.0	23.0	11.0	12.5	100
MWLA1707S-220MT	22±20%	26.5	16.0	18.0	7.0	12.0	100
MWLA1707S-330MT	33±20%	44	13.0	15.0	6.5	10.7	100
MWLA1707S-390MT	39±20%	48	10.0	11.0	6.0	9.2	100

规格特性 Specifications

MWLA1707S 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		耐受电压 @1mA/3S Withstanding Voltage @1mA/3S
	@100KHz, 1V	Max.	Max.	Typ.	Max.	Typ.	Max.
单位 Units	μH	mΩ	A		A		V
符号 Symbol	L	DCR	Isat		I _{rms}		/
MWLA1707S-470MT	47±20%	55	8.5	9.5	7.7	8.7	100
MWLA1707S-560MT	56±20%	62	8.0	9.0	5.0	7.8	100
MWLA1707S-680MT	68±20%	80	7.0	8.0	4.5	7.0	100
MWLA1707S-820MT	82±20%	100	6.0	7.0	3.5	5.7	100
MWLA1707S-101MT	100±20%	118	5.2	6.5	4.24	5.3	100

※1: 所有的测试数据均以 25°C 环境温度为基准;

※1: All test data is referenced to 25°C ambient;

※2: 饱和电流 (典型值): 通直流电使得没有通电时的感量下降 30% 左右的电流;

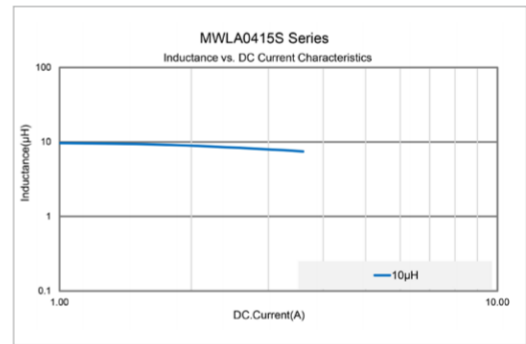
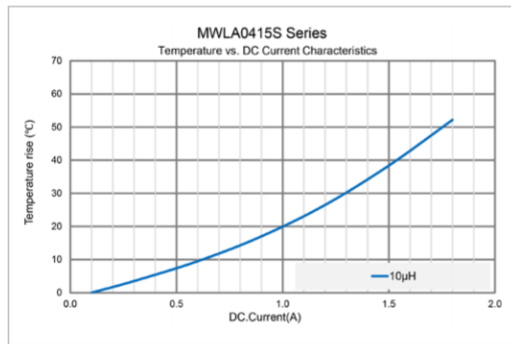
※2: Isat(Typ): DC current at which the inductance drops approximate 30% from its value without current;

※3: 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;

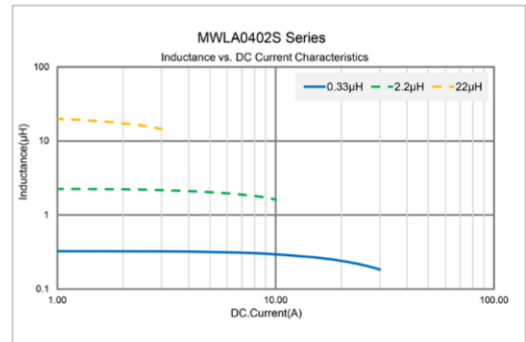
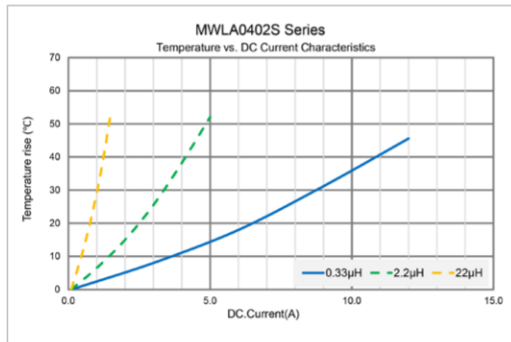
※3: I_{rms}(Typ): DC current that causes the temperature rise (ΔT=40°C) from 20°C ambient;

电气特性 Typical Electrical Characteristics

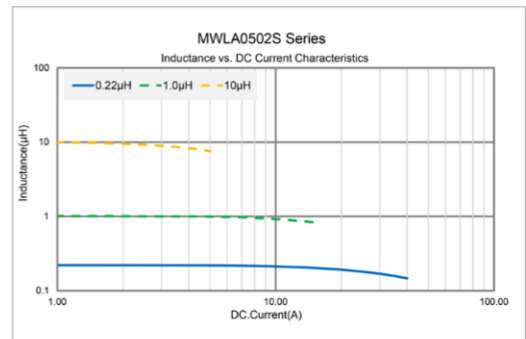
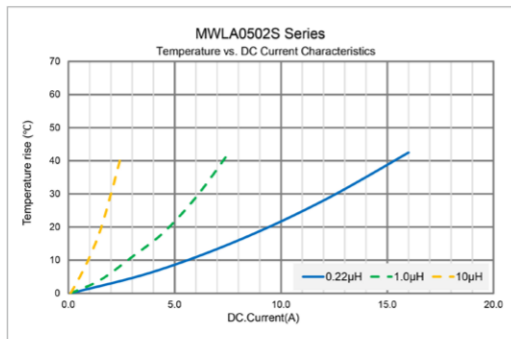
MWLA0415S Series



MWLA0402S Series



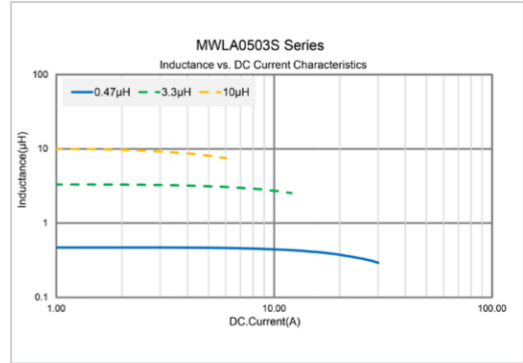
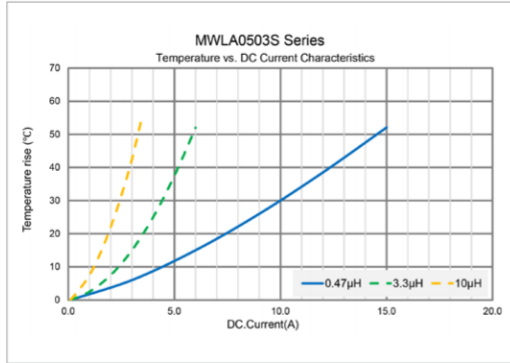
MWLA0502S Series



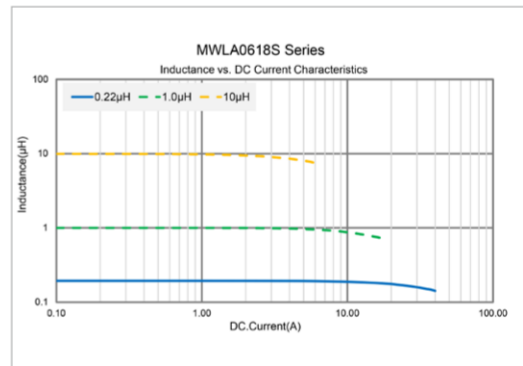
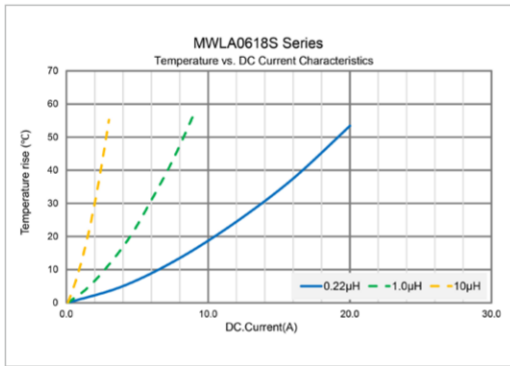
电气特性

Typical Electrical Characteristics

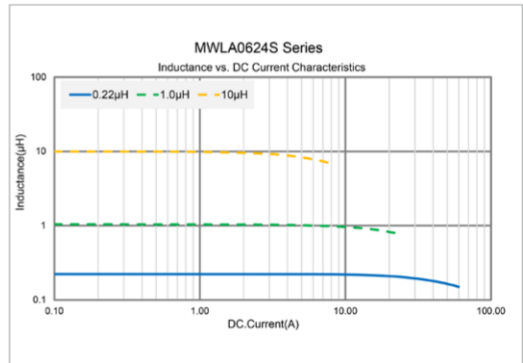
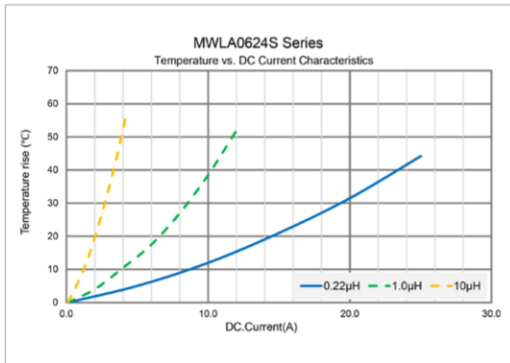
MWLA0503S Series



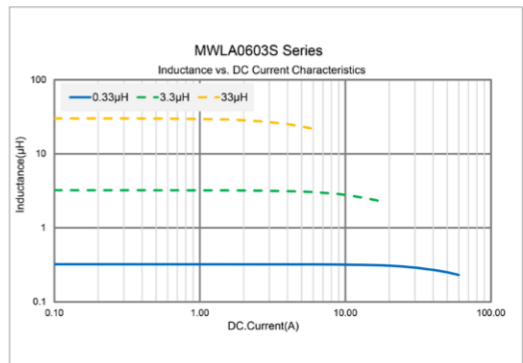
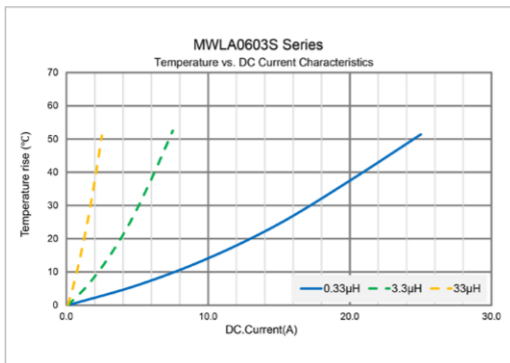
MWLA0618S Series



MWLA0624S Series



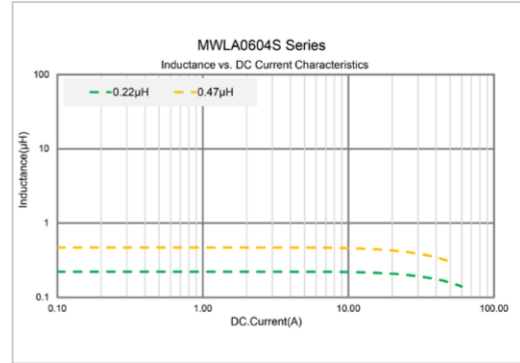
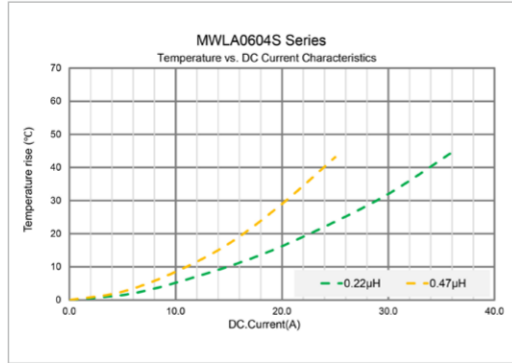
MWLA0603S Series



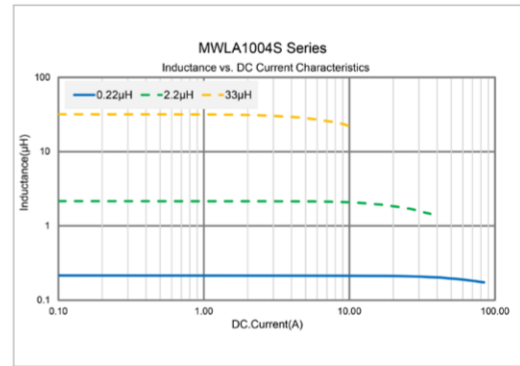
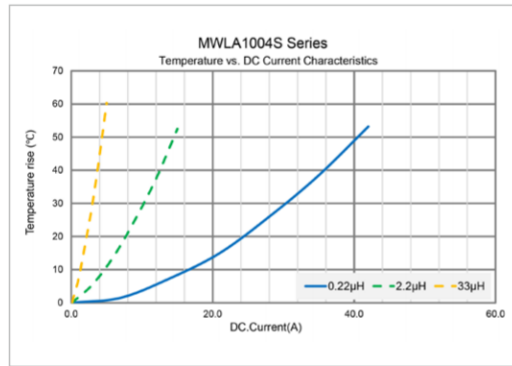
电气特性

Typical Electrical Characteristics

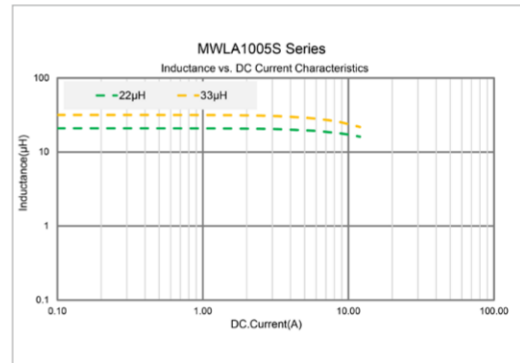
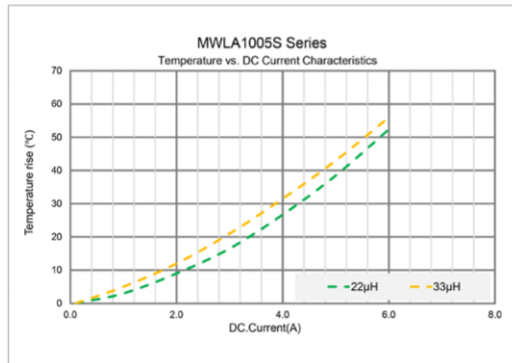
MWLA0604S Series



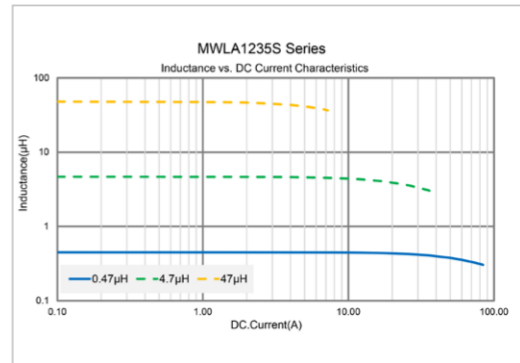
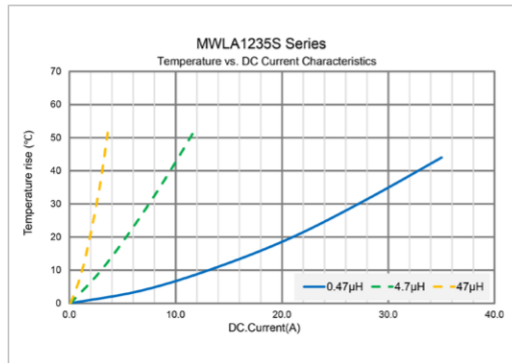
MWLA1004S Series



MWLA1005S Series



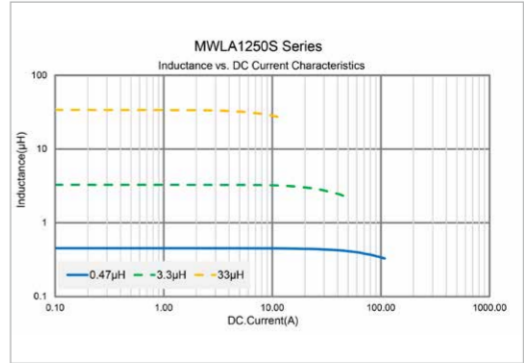
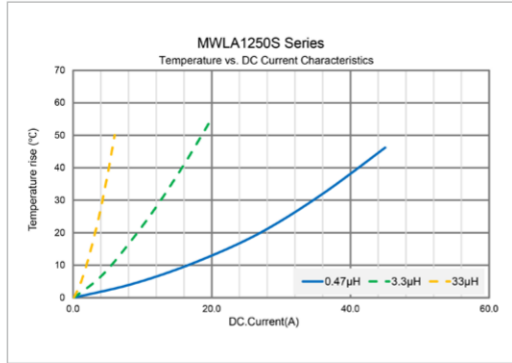
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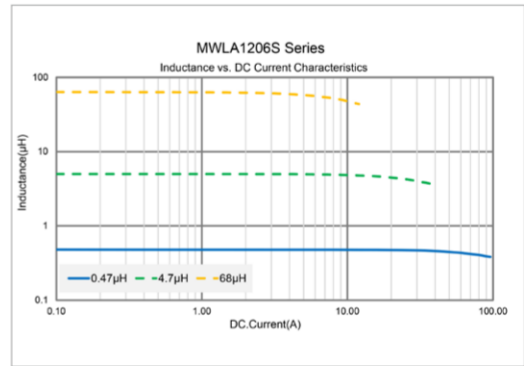
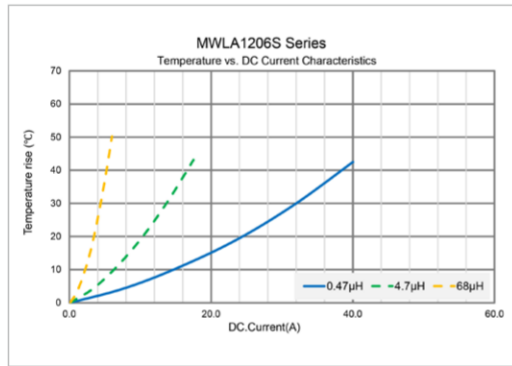
电气特性

Typical Electrical Characteristics

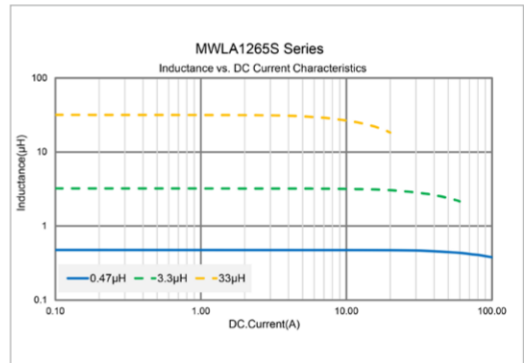
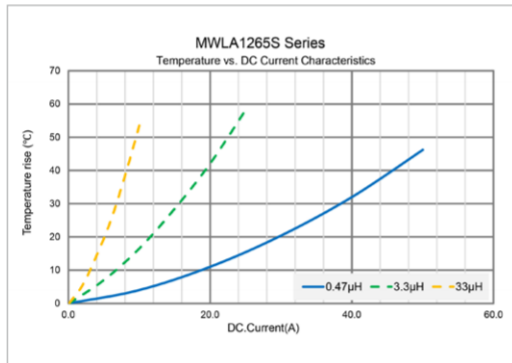
MWLA1250S Series



MWLA1206S Series



MWLA1265S Series



MWLA1707S Series

