

Molded Power Inductors – MWLA-S Series



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

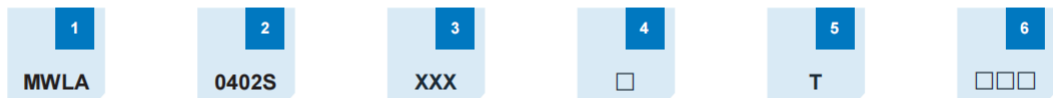
Features

- ◆ 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

Applications

- ◆ High frequency switching power supply, UPS power supply graphics cards, audio amplifiers
- ◆ Notebooks, tablets, computer motherboard
- ◆ Video equipment, instrumentation, set-top boxes, DVD players

Product Identification



1	Type
MWLA	Molded SMD Power Inductors

2	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
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

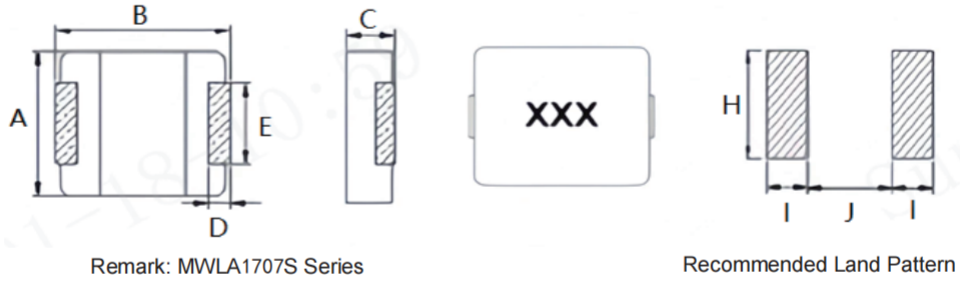
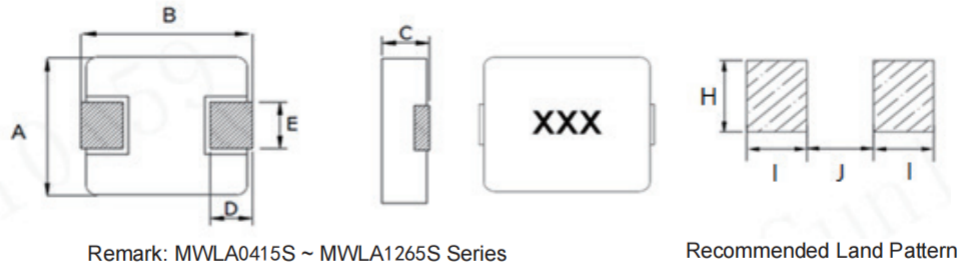
3	Nominal Inductance [μH]
Example	Nominal Value [μH]
1R0	1.0μH
1R5	1.5μH

4	Inductance Tolerance
M	±20%

5	Packing
T	Tape & Reel

6	Design Code
□□□	Design Code
* Standard product is blank	

Shape and Dimensions



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
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	R33/R47/R68/R82
4.7±0.5	1R0/1R5/2R2/3R3/4R7/5R6/6R8/8R2/100/150/220/330/470

Remark2

E	Inductance
3.85±0.5	R33/R47/R56/R68/1R0/1R5
4.7±0.5	2R2/2R7/3R3/4R7/6R8/8R2/100/150/220/330/470/680

Remark3

E	Inductance
3.85±0.5	R33/R47/R56/R68/R82/1R0/1R5
4.7±0.5	2R2/3R3/4R7/5R6/6R8/8R2/100/150/220/330

Shape and Dimensions

Remark4

E	Inductance
3.85±0.5	R47/R68/1R0/1R5
4.7±0.5	2R2/3R3/4R7/6R8/8R2/100/150/220/330/470/680/820/101/121/151

Specifications

MWLA0415S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
MWLA0415S-100MT	10±20%	400	1.70	1.90	1.00	1.50

MWLA0402S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
MWLA0402S-R22MT	0.22±20%	7.3	21.00	24.00	8.50	13.00
MWLA0402S-R33MT	0.33±20%	8.6	16.00	18.00	6.50	10.00
MWLA0402S-R47MT	0.47±20%	14	10.50	12.00	5.00	8.00
MWLA0402S-R68MT	0.68±20%	19	9.00	10.00	4.00	7.00
MWLA0402S-1R0MT	1.0±20%	27	7.50	8.50	3.00	5.00
MWLA0402S-1R5MT	1.5±20%	42	6.00	7.00	2.80	4.50
MWLA0402S-2R2MT	2.2±20%	61	5.00	6.00	2.40	4.00
MWLA0402S-3R3MT	3.3±20%	76	3.50	4.00	2.00	3.50
MWLA0402S-4R7MT	4.7±20%	105	3.00	3.50	1.70	2.60
MWLA0402S-6R8MT	6.8±20%	172	2.50	2.80	1.50	2.10
MWLA0402S-100MT	10±20%	243	2.00	2.30	1.20	1.80
MWLA0402S-150MT	15±20%	374	1.70	1.90	1.00	1.50
MWLA0402S-220MT	22±20%	500	1.20	1.40	0.80	1.20

MWLA0502S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
MWLA0502S-R10MT	0.10±20%	4	40.00	45.00	12.00	18.00
MWLA0502S-R15MT	0.15±20%	4.6	24.00	27.00	10.00	16.00
MWLA0502S-R22MT	0.22±20%	5.5	22.00	25.00	9.00	15.00
MWLA0502S-R33MT	0.33±20%	7.3	18.50	21.30	7.00	12.00
MWLA0502S-R47MT	0.47±20%	8.6	16.00	18.00	7.00	11.50
MWLA0502S-R56MT	0.56±20%	11	13.50	16.00	7.00	11.00
MWLA0502S-R68MT	0.68±20%	12.4	11.50	12.80	6.00	10.00
MWLA0502S-1R0MT	1.0±20%	20	12.00	13.70	5.00	7.00
MWLA0502S-1R5MT	1.5±20%	30.5	8.50	9.80	3.50	5.50
MWLA0502S-2R2MT	2.2±20%	50	8.00	9.00	3.00	4.20
MWLA0502S-3R3MT	3.3±20%	76	6.50	7.30	2.00	3.30
MWLA0502S-4R7MT	4.7±20%	116	4.50	5.00	1.80	2.80
MWLA0502S-6R8MT	6.8±20%	150	3.30	3.80	1.60	2.40
MWLA0502S-8R2MT	8.2±20%	171	3.00	3.50	1.50	2.30
MWLA0502S-100MT	10±20%	199	3.00	3.40	1.50	2.30
MWLA0502S-150MT	15±20%	270	2.50	2.80	1.10	1.90
MWLA0502S-220MT	22±20%	390	1.60	1.80	0.90	1.50

Specifications

MWLA0503S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current	
	@100KHz, 1V	Max.	Max.	Typ.	Max.	Typ.
Units	μH	m Ω	A		A	
Symbol	L	DCR	Isat		Irms	
MWLA0503S-R22MT	$0.22 \pm 20\%$	4.4	18.50	21.00	11.50	15.50
MWLA0503S-R33MT	$0.33 \pm 20\%$	5	16.00	18.00	9.00	14.00
MWLA0503S-R47MT	$0.47 \pm 20\%$	7.4	14.00	16.00	7.00	12.00
MWLA0503S-R68MT	$0.68 \pm 20\%$	12	12.00	14.00	5.50	8.50
MWLA0503S-R82MT	$0.82 \pm 20\%$	13	11.00	12.50	4.50	8.00
MWLA0503S-1R0MT	$1.0 \pm 20\%$	14	9.50	11.00	4.20	7.00
MWLA0503S-1R5MT	$1.5 \pm 20\%$	25	8.80	10.00	3.80	6.00
MWLA0503S-2R2MT	$2.2 \pm 20\%$	35	8.00	9.00	3.30	5.50
MWLA0503S-3R3MT	$3.3 \pm 20\%$	38	7.00	8.00	3.10	5.00
MWLA0503S-4R7MT	$4.7 \pm 20\%$	53	5.30	6.00	3.00	4.60
MWLA0503S-5R6MT	$5.6 \pm 20\%$	63	4.00	4.50	2.90	4.25
MWLA0503S-6R8MT	$6.8 \pm 20\%$	76.2	3.80	4.30	2.60	4.00
MWLA0503S-100MT	$10 \pm 20\%$	128	3.10	3.50	1.70	2.75
MWLA0503S-100MTB01	$10 \pm 20\%$	120	3.50	4.00	2.00	3.50
MWLA0503S-150MT	$15 \pm 20\%$	190	2.30	2.60	1.40	2.10
MWLA0503S-220MT	$22 \pm 20\%$	250	1.50	1.70	1.30	1.90

MWLA0618S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current	
	@100KHz, 1V	Max.	Max.	Typ.	Max.	Typ.
Units	μH	m Ω	A		A	
Symbol	L	DCR	Isat		Irms	
MWLA0618S-R15MT	$0.15 \pm 20\%$	2.6	30.00	34.00	14.00	18.00
MWLA0618S-R22MT	$0.22 \pm 20\%$	3	23.00	26.00	13.00	16.00
MWLA0618S-R33MT	$0.33 \pm 20\%$	5.8	19.50	22.00	10.00	14.00
MWLA0618S-R47MT	$0.47 \pm 20\%$	7.4	16.00	18.00	9.50	12.00
MWLA0618S-R68MT	$0.68 \pm 20\%$	11	15.00	17.00	6.50	10.00
MWLA0618S-R82MT	$0.82 \pm 20\%$	14	13.50	15.50	5.50	8.50
MWLA0618S-1R0MT	$1.0 \pm 20\%$	17	12.50	14.00	4.50	7.00
MWLA0618S-1R5MT	$1.5 \pm 20\%$	25.2	11.50	13.00	3.80	6.00
MWLA0618S-2R2MT	$2.2 \pm 20\%$	35	10.00	11.00	3.80	6.00
MWLA0618S-3R3MT	$3.3 \pm 20\%$	46	8.00	9.00	3.20	5.00
MWLA0618S-4R7MT	$4.7 \pm 20\%$	76	6.20	7.00	2.50	4.00
MWLA0618S-6R8MT	$6.8 \pm 20\%$	104	4.80	5.50	2.10	3.00
MWLA0618S-100MT	$10 \pm 20\%$	160	3.00	3.50	1.50	2.30

MWLA0624S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current	
	@100KHz, 1V	Max.	Max.	Typ.	Max.	Typ.
Units	μH	m Ω	A		A	
Symbol	L	DCR	Isat		Irms	
MWLA0624S-R15MT	$0.15 \pm 20\%$	2.3	39.00	45.00	18.50	30.00
MWLA0624S-R22MT	$0.22 \pm 20\%$	3.2	30.00	34.00	14.00	21.00
MWLA0624S-R33MT	$0.33 \pm 20\%$	4.4	27.00	30.00	12.00	18.00
MWLA0624S-R47MT	$0.47 \pm 20\%$	5.1	23.00	26.00	10.00	15.00
MWLA0624S-R68MT	$0.68 \pm 20\%$	7.2	18.50	21.00	9.00	13.00
MWLA0624S-R82MT	$0.82 \pm 20\%$	9.5	15.50	17.00	7.00	11.00
MWLA0624S-1R0MT	$1.0 \pm 20\%$	13.5	14.00	16.00	6.50	10.00
MWLA0624S-1R5MT	$1.5 \pm 20\%$	20	13.00	15.00	6.00	9.00
MWLA0624S-2R2MT	$2.2 \pm 20\%$	28	12.00	14.00	4.50	7.00
MWLA0624S-3R3MT	$3.3 \pm 20\%$	39	9.00	10.00	4.00	6.00
MWLA0624S-4R7MT	$4.7 \pm 20\%$	50	8.00	9.00	3.50	5.50
MWLA0624S-6R8MT	$6.8 \pm 20\%$	72	6.00	7.00	2.50	4.00
MWLA0624S-100MT	$10 \pm 20\%$	101	4.50	5.00	1.90	3.20

Specifications

MWLA0603S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
MWLA0603S-R10NT	0.10±30%	1.7	53.00	60.00	23.00	32.50
MWLA0603S-R15MT	0.15±20%	1.9	40.00	45.00	24.00	27.00
MWLA0603S-R15MTB01	0.15±20%	0.9±7%	41.00	45.00	34.00	37.00
MWLA0603S-R20MT	0.20±20%	2.7	36.00	41.00	15.00	24.00
MWLA0603S-R22MT	0.22±20%	2.8	35.00	40.00	14.50	23.00
MWLA0603S-R33MT	0.33±20%	3.9	28.00	32.00	12.50	20.00
MWLA0603S-R47MT	0.47±20%	4.2	23.00	26.00	12.00	17.50
MWLA0603S-R56MT	0.56±20%	5	23.00	25.50	11.00	16.50
MWLA0603S-R68MT	0.68±20%	5.5	22.00	25.00	13.50	15.50
MWLA0603S-R82MT	0.82±20%	8	21.00	24.00	9.00	13.00
MWLA0603S-1R0MT	1.0±20%	10	19.40	22.00	9.70	11.00
MWLA0603S-1R2MT	1.2±20%	12	17.50	20.00	6.00	10.00
MWLA0603S-1R5MT	1.5±20%	15	16.00	18.00	5.80	9.00
MWLA0603S-2R0MT	2.0±20%	19	13.50	15.00	5.50	8.20
MWLA0603S-2R2MT	2.2±20%	20	12.50	14.00	5.20	8.00
MWLA0603S-3R3MT	3.3±20%	30	12.00	13.50	3.50	6.00
MWLA0603S-4R7MT	4.7±20%	40	8.80	10.0	3.20	5.50
MWLA0603S-5R6MT	5.6±20%	48	8.00	9.00	3.00	5.00
MWLA0603S-6R8MT	6.8±20%	60	7.00	8.00	2.80	4.50
MWLA0603S-8R2MT	8.2±20%	68	6.50	7.50	2.50	4.00
MWLA0603S-100MT	10±20%	85	5.50	6.00	2.40	3.50
MWLA0603S-150MT	15±20%	123	3.50	4.00	2.60	3.00
MWLA0603S-220MT	22±20%	190	3.00	3.50	1.20	2.00
MWLA0603S-330MT	33±20%	240	2.20	2.50	1.20	2.00
MWLA0603S-470MT	47±20%	363	1.80	2.00	1.10	1.75

MWLA0604S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
MWLA0604S-R22MT	0.22±20%	0.98±5%	44.50	50.00	28.50	32.00
MWLA0604S-R47MT	0.47±20%	3.4	25.00	28.00	16.00	23.00

MWLA1004S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
MWLA1004S-R12MT	0.12±20%	0.4±7%	62.00	70.00	18.00	28.00
MWLA1004S-R19MT	0.19±20%	0.95	80.00	90.00	26.00	40.00
MWLA1004S-R22MT	0.22±20%	1	53.00	60.00	24.00	35.00
MWLA1004S-R36MT	0.36±20%	1.2	53.00	60.00	21.00	31.00
MWLA1004S-R45MT	0.45±20%	1.5	40.00	45.00	18.00	29.00
MWLA1004S-R47MT	0.47±20%	1.5	38.00	43.00	18.00	28.00
MWLA1004S-R56MT	0.56±20%	1.8	35.00	40.00	17.00	25.00
MWLA1004S-R68MT	0.68±20%	2.7	34.00	39.00	14.00	22.00
MWLA1004S-1R0MT	1.0±20%	3.3	32.00	36.00	11.00	18.00
MWLA1004S-1R2MT	1.2±20%	4	29.00	33.00	10.50	17.00
MWLA1004S-1R5MT	1.5±20%	4.6	29.00	33.00	10.00	16.00
MWLA1004S-2R2MT	2.2±20%	7	24.00	27.00	7.50	12.00
MWLA1004S-3R3MT	3.3±20%	11.8	18.00	20.00	7.00	11.00

Specifications

MWLA1004S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current	
	@100KHz,1V		Max.	Typ.	Max.	Typ.
Units	μH	$\text{m}\Omega$	A		A	
Symbol	L	DCR	Isat		Irms	
MWLA1004S-4R7MT	$4.7 \pm 20\%$	15.5	15.00	17.00	6.50	10.00
MWLA1004S-5R6MT	$5.6 \pm 20\%$	19.3	13.00	14.00	5.70	9.00
MWLA1004S-6R8MT	$6.8 \pm 20\%$	23.3	12.00	13.50	5.50	8.50
MWLA1004S-100MT	$10 \pm 20\%$	30	11.00	12.00	4.50	7.50
MWLA1004S-150MT	$15 \pm 20\%$	45	9.00	10.00	4.50	6.25
MWLA1004S-220MT	$22 \pm 20\%$	74	6.00	7.00	3.00	5.00
MWLA1004S-330MT	$33 \pm 20\%$	112	4.50	5.00	2.00	3.50
MWLA1004S-470MT	$47 \pm 20\%$	167	4.00	4.50	1.50	3.00

MWLA1005S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current	
	@100KHz,1V		Max.	Typ.	Max.	Typ.
Units	μH	$\text{m}\Omega$	A		A	
Symbol	L	DCR	Isat		Irms	
MWLA1005S-220MT	$22 \pm 20\%$	60	9.00	10.00	3.20	5.00
MWLA1005S-330MT	$33 \pm 20\%$	92	6.50	7.50	2.80	4.30

MWLA1235S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current	
	@100KHz,1V		Max.	Typ.	Max.	Typ.
Units	μH	$\text{m}\Omega$	A		A	
Symbol	L	DCR	Isat		Irms	
MWLA1235S-R33MT	$0.33 \pm 20\%$	1.5	55.00	62.00	23.00	36.50
MWLA1235S-R47MT	$0.47 \pm 20\%$	2	49.00	55.00	21.00	32.00
MWLA1235S-R68MT	$0.68 \pm 20\%$	2.5	44.00	49.00	17.00	28.00
MWLA1235S-R82MT	$0.82 \pm 20\%$	3	39.00	44.00	16.00	25.00
MWLA1235S-1R0MT	$1.0 \pm 20\%$	3.5	35.00	40.00	15.00	24.00
MWLA1235S-1R5MT	$1.5 \pm 20\%$	5.5	32.00	35.00	11.00	19.00
MWLA1235S-2R2MT	$2.2 \pm 20\%$	8	26.00	29.00	10.00	16.00
MWLA1235S-3R3MT	$3.3 \pm 20\%$	12	24.00	27.00	7.50	12.00
MWLA1235S-4R7MT	$4.7 \pm 20\%$	18	20.00	22.00	5.50	9.00
MWLA1235S-5R6MT	$5.6 \pm 20\%$	22	17.00	19.00	5.50	9.50
MWLA1235S-6R8MT	$6.8 \pm 20\%$	24	16.00	18.00	5.00	9.00
MWLA1235S-8R2MT	$8.2 \pm 20\%$	28	14.00	16.00	5.00	8.50
MWLA1235S-100MT	$10 \pm 20\%$	34	12.00	14.00	4.50	7.50
MWLA1235S-150MT	$15 \pm 20\%$	65	9.00	10.00	4.20	6.50
MWLA1235S-220MT	$22 \pm 20\%$	99	6.00	7.00	3.00	4.50
MWLA1235S-330MT	$33 \pm 20\%$	160	5.00	6.00	2.00	3.50
MWLA1235S-470MT	$47 \pm 20\%$	218	5.00	5.50	1.80	3.00

MWLA1250S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current	
	@100KHz,1V		Max.	Typ.	Max.	Typ.
Units	μH	$\text{m}\Omega$	A		A	
Symbol	L	DCR	Isat		Irms	
MWLA1250S-R33MT	$0.33 \pm 20\%$	0.9	71.00	80.00	30.00	42.00
MWLA1250S-R47MT	$0.47 \pm 20\%$	1.1	58.00	65.00	27.00	38.00
MWLA1250S-R56MT	$0.56 \pm 20\%$	1.5	49.00	55.00	25.00	36.00
MWLA1250S-R68MT	$0.68 \pm 20\%$	1.7	48.00	54.00	22.00	34.00
MWLA1250S-R82MT	$0.82 \pm 20\%$	2.1	46.00	52.00	20.00	31.00
MWLA1250S-1R0MT	$1.0 \pm 20\%$	2.5	44.00	50.00	19.00	29.00
MWLA1250S-1R5MT	$1.5 \pm 20\%$	3.3	42.00	48.00	17.00	27.00

Specifications

MWLA1250S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
MWLA1250S-2R2MT	2.2±20%	5.5	32.00	32.00	12.00	20.00
MWLA1250S-3R3MT	3.3±20%	9.2	28.00	32.00	9.00	15.00
MWLA1250S-4R7MT	4.7±20%	15	24.00	27.00	7.50	12.00
MWLA1250S-5R6MT	5.6±20%	16.5	20.00	22.00	7.00	11.50
MWLA1250S-6R8MT	6.8±20%	18.5	19.00	21.00	7.00	11.00
MWLA1250S-8R2MT	8.2±20%	22.5	16.00	18.00	6.50	9.50
MWLA1250S-100MT	10±20%	25.5	14.00	16.00	6.00	9.00
MWLA1250S-150MT	15±20%	38	12.00	13.00	5.00	8.20
MWLA1250S-220MT	22±20%	58	9.00	10.00	4.00	6.50
MWLA1250S-330MT	33±20%	88	7.00	8.00	3.00	5.00

MWLA1206S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
MWLA1206S-R47MT	0.47±20%	1.3	58.00	64.00	24.00	38.00
MWLA1206S-R68MT	0.68±20%	1.7	51.00	57.00	21.00	33.00
MWLA1206S-1R0MT	1.0±20%	2.4	47.00	53.00	19.00	29.00
MWLA1206S-1R5MT	1.5±20%	3.2	44.00	50.00	18.00	26.00
MWLA1206S-2R2MT	2.2±20%	4.7	38.00	43.00	14.00	21.00
MWLA1206S-3R3MT	3.3±20%	7.1	31.00	35.00	11.00	17.00
MWLA1206S-4R7MT	4.7±20%	11.5	27.00	30.00	10.00	16.00
MWLA1206S-6R8MT	6.8±20%	13.8	22.00	25.00	9.50	15.00
MWLA1206S-8R2MT	8.2±20%	16	20.00	23.00	7.00	11.00
MWLA1206S-100MT	10±20%	20.7	19.00	21.00	7.00	11.00
MWLA1206S-150MT	15±20%	29	14.00	16.00	5.50	9.00
MWLA1206S-220MT	22±20%	39.5	12.00	14.00	5.00	8.00
MWLA1206S-330MT	33±20%	75	11.00	12.00	3.80	6.00
MWLA1206S-470MT	47±20%	90	10.00	11.00	3.50	5.50
MWLA1206S-680MT	68±20%	140	8.00	9.00	3.30	5.00
MWLA1206S-820MT	82±20%	161	7.50	8.50	3.00	4.50
MWLA1206S-101MT	100±20%	200	7.00	8.00	2.70	4.00
MWLA1206S-121MT	120±20%	235	6.00	7.00	2.20	3.50
MWLA1206S-151MT	150±20%	350	5.50	6.00	1.70	3.00

MWLA1265S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current	
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ	A		A	
Symbol	L	DCR	Isat		Irms	
MWLA1265S-R33MT	0.33±20%	0.8	60.00	68.00	30.00	46.00
MWLA1265S-R47MT	0.47±20%	1.2	56.00	63.00	29.00	41.00
MWLA1265S-R56MT	0.56±20%	1.4	51.00	58.00	18.00	31.00
MWLA1265S-R68MT	0.68±20%	1.5	49.00	55.00	22.00	35.00
MWLA1265S-R68MTB01	0.68±20%	1.5	49.00	60.00	22.00	35.00
MWLA1265S-1R0MT	1.0±20%	2.3	43.00	48.00	20.00	30.00
MWLA1265S-1R5MT	1.5±20%	3	40.00	45.00	17.00	27.00
MWLA1265S-2R2MT	2.2±20%	4.2	32.00	37.00	19.00	22.00
MWLA1265S-2R7MT	2.7±20%	5.5	29.00	32.00	12.00	20.00
MWLA1265S-3R3MT	3.3±20%	6.8	27.00	30.00	11.00	18.00
MWLA1265S-4R7MT	4.7±20%	8.4	25.00	28.00	8.00	13.50
MWLA1265S-6R8MT	6.8±20%	11.5	16.00	18.00	7.00	11.50

Specifications

MWLA1265S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current	
	@100KHz,1V		Max.	Typ.	Max.	Typ.
Units	μH	m Ω	A		A	
Symbol	L	DCR	Isat		Irms	
MWLA1265S-8R2MT	$8.2 \pm 20\%$	15.5	14.00	16.00	6.50	10.50
MWLA1265S-100MT	$10 \pm 20\%$	16.5	13.50	15.50	6.20	10.00
MWLA1265S-150MT	$15 \pm 20\%$	28	12.00	13.00	6.00	9.00
MWLA1265S-150MTB01	$15 \pm 20\%$	28	16.00	18.00	6.00	9.00
MWLA1265S-220MT	$22 \pm 20\%$	37	11.00	12.00	6.00	9.00
MWLA1265S-330MT	$33 \pm 20\%$	58	10.00	11.00	5.00	8.00
MWLA1265S-470MT	$47 \pm 20\%$	90	8.50	9.50	4.00	6.50
MWLA1265S-680MT	$68 \pm 20\%$	130	7.00	7.80	3.00	4.80

MWLA1707S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current	
	@100KHz,1V		Max.	Typ.	Max.	Typ.
Units	μH	m Ω	A		A	
Symbol	L	DCR	Isat		Irms	
MWLA1707S-1R0MT	$1.0 \pm 20\%$	2	53.00	60.00	33.00	52.00
MWLA1707S-1R5MT	$1.5 \pm 20\%$	2.5	46.00	52.00	32.00	47.00
MWLA1707S-1R5MTY01	$1.5 \pm 20\%$	1.5	46.00	52.00	32.00	47.00
MWLA1707S-2R2MT	$2.2 \pm 20\%$	2.7	42.00	47.00	31.00	43.50
MWLA1707S-3R3MT	$3.3 \pm 20\%$	3.9	40.00	45.00	17.00	28.00
MWLA1707S-4R7MT	$4.7 \pm 20\%$	5.5	36.00	41.00	16.00	25.00
MWLA1707S-5R6MT	$5.6 \pm 20\%$	7.05	40.00	45.00	13.00	21.00
MWLA1707S-6R8MT	$6.8 \pm 20\%$	9.2	28.00	32.00	12.00	19.00
MWLA1707S-8R2MT	$8.2 \pm 20\%$	10.8	22.00	25.00	11.50	18.00
MWLA1707S-100MT	$10 \pm 20\%$	13	21.00	24.00	11.20	16.50
MWLA1707S-150MT	$15 \pm 20\%$	20.5	20.00	23.00	11.00	12.50
MWLA1707S-220MT	$22 \pm 20\%$	26.5	16.00	18.00	7.00	12.00
MWLA1707S-330MT	$33 \pm 20\%$	44	13.00	15.00	6.50	10.70
MWLA1707S-390MT	$39 \pm 20\%$	48	10.00	11.00	6.00	9.20
MWLA1707S-470MT	$47 \pm 20\%$	55	8.50	9.50	7.70	8.70
MWLA1707S-560MT	$56 \pm 20\%$	62	8.00	9.00	5.00	7.80
MWLA1707S-680MT	$68 \pm 20\%$	80	7.00	8.00	4.50	7.00
MWLA1707S-820MT	$82 \pm 20\%$	100	6.00	7.00	3.50	5.70
MWLA1707S-101MT	$100 \pm 20\%$	118	5.20	6.50	4.24	5.30

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

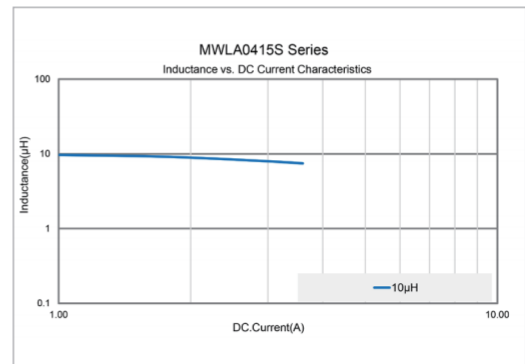
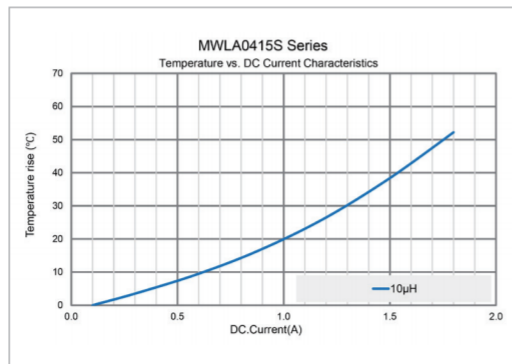
※2: Isat(Typ): DC current at which the inductance drops approximate 30% from its value without current;

※3: Irms(Typ): DC current that causes the temperature rise ($\Delta T=40^\circ\text{C}$) from 20°C ambient;

※4: Absolute maximum voltage 30VDC.

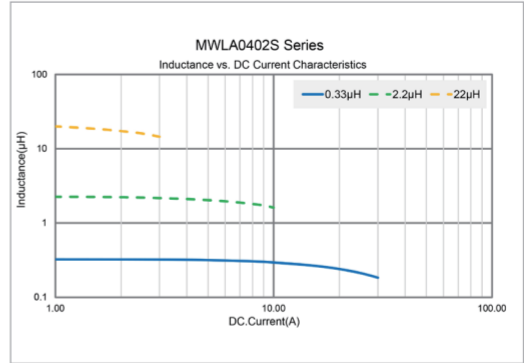
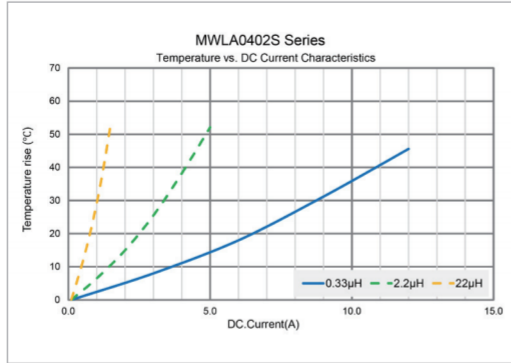
Typical
Electrical
Characteristics

MWLA0415S Series

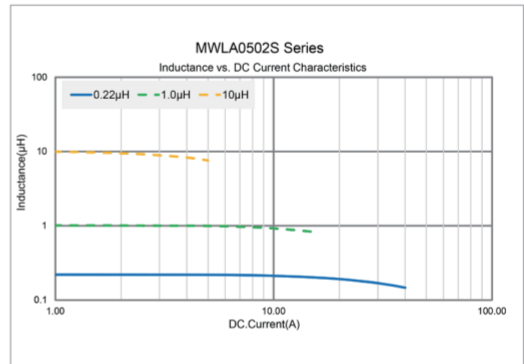
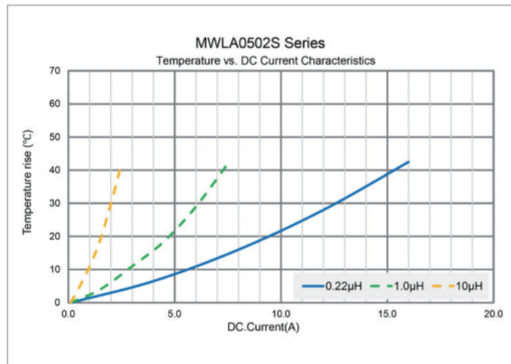


**Typical
Electrical
Characteristics**

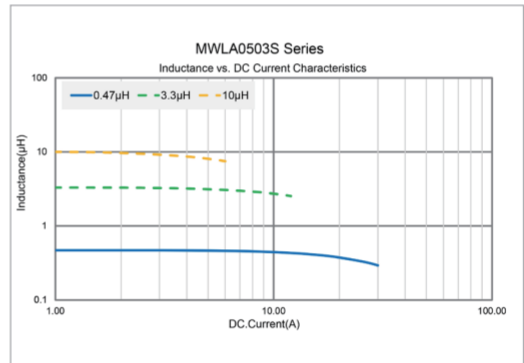
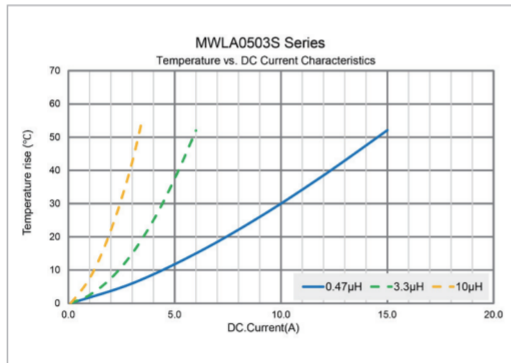
MWLA0402S Series



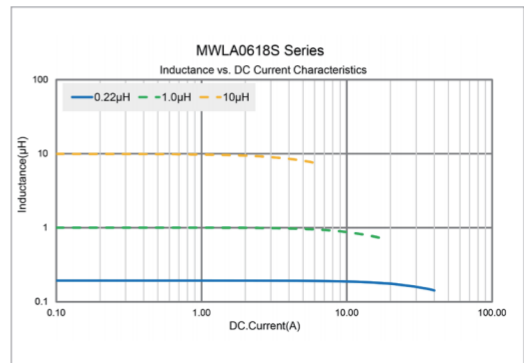
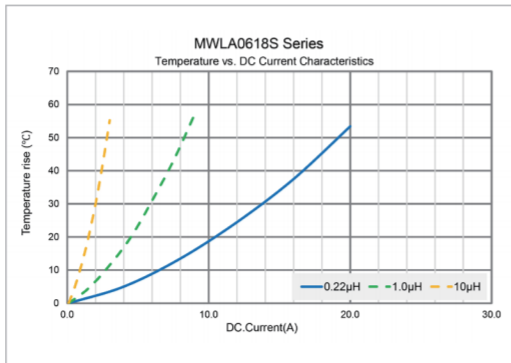
MWLA0502S Series



MWLA0503S Series

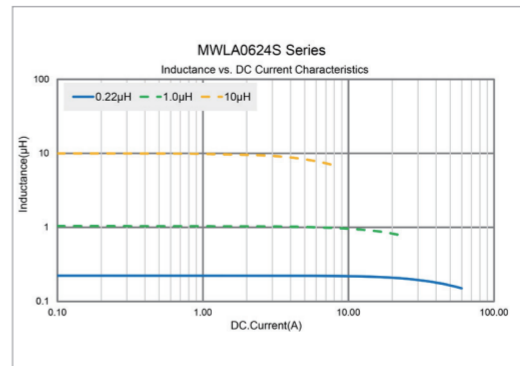
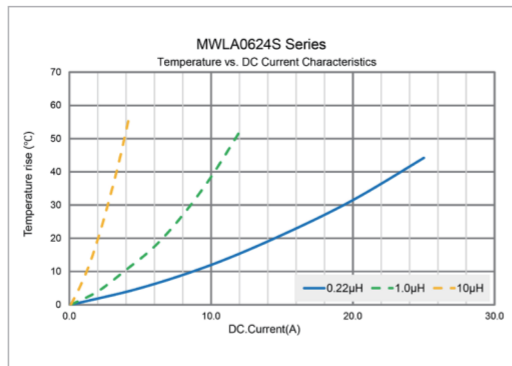


MWLA0618S Series

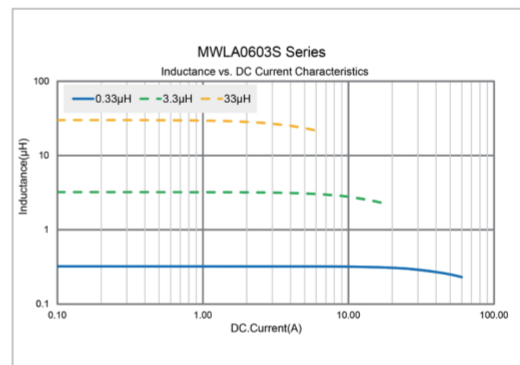
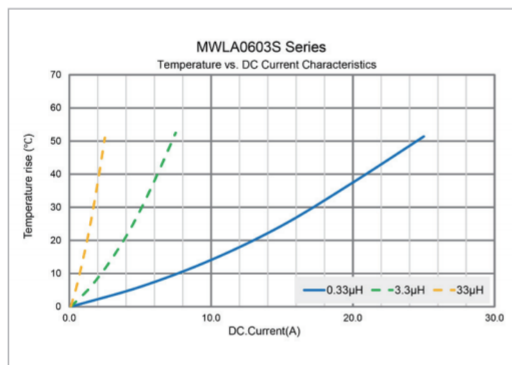


Typical Electrical Characteristics

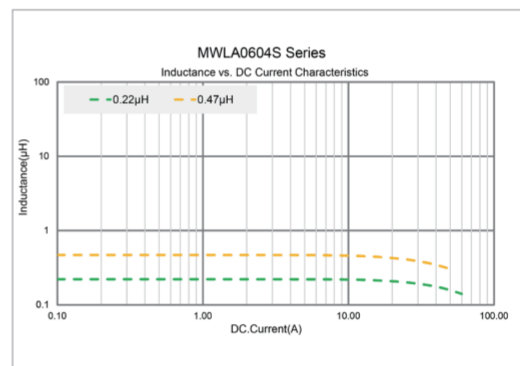
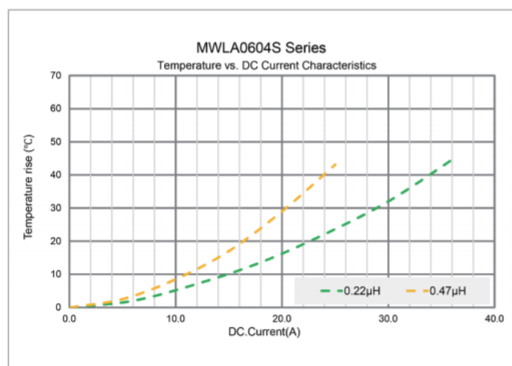
MWLA0624S Series



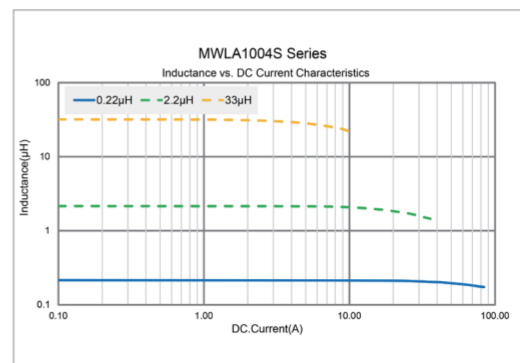
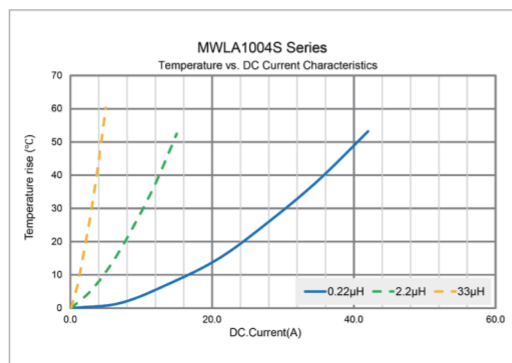
MWLA0603S Series



MWLA0604S Series

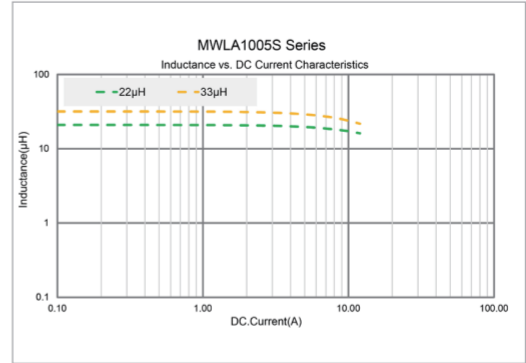
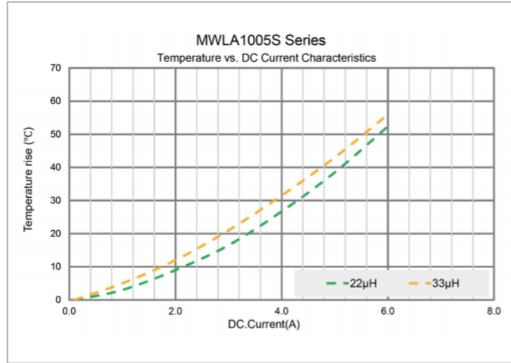


MWLA1004S Series

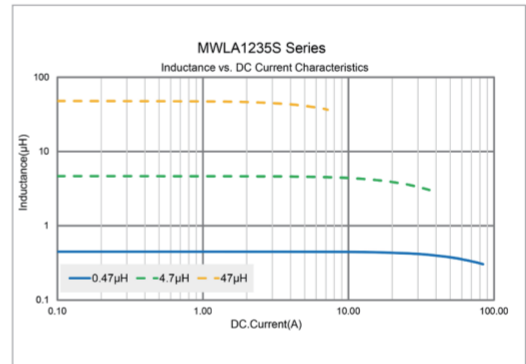
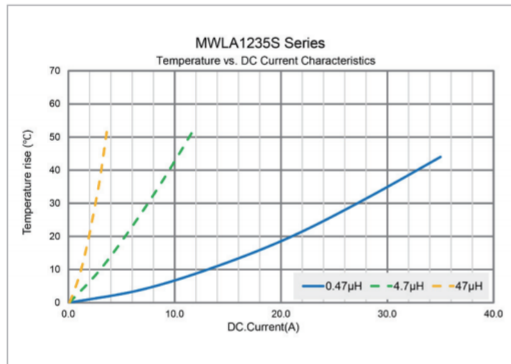


Typical
Electrical
Characteristics

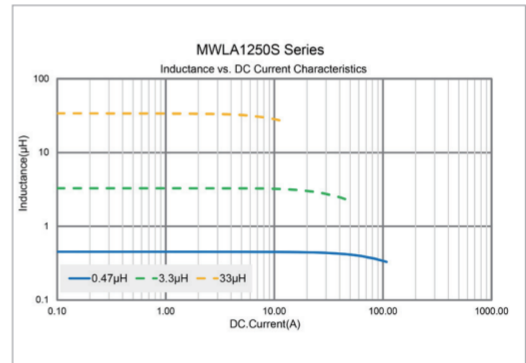
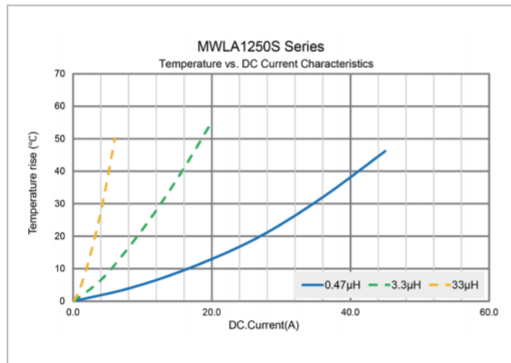
MWLA1005S Series



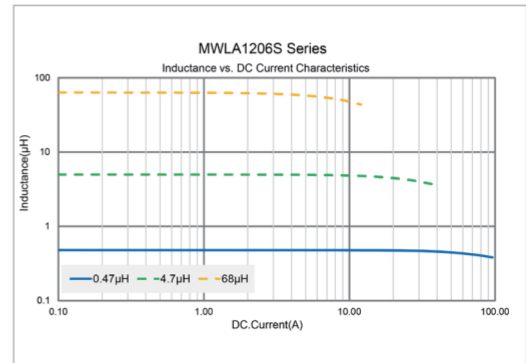
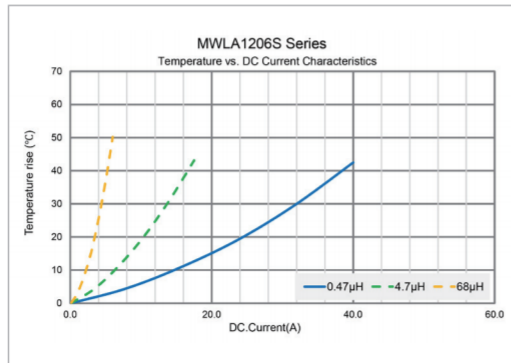
MWLA1235S Series



MWLA1250S Series

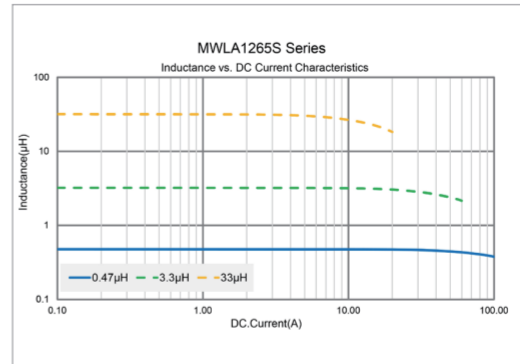
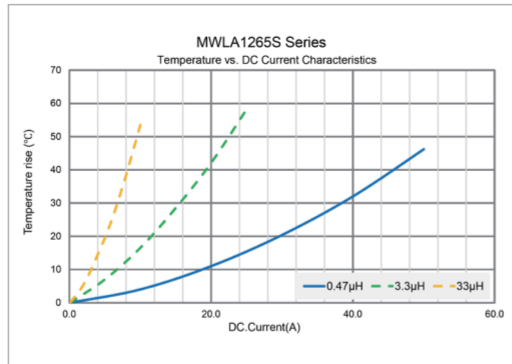


MWLA1206S Series



Typical Electrical Characteristics

MWLA1265S Series



MWLA1707S Series

