

Molded Power Inductors – MWSA – S Series



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

Features

- ◆ Metal material for large current and low DCR
- ◆ Closed magnetic circuit design reduces leakage flux
- ◆ Halogen free, RoHS compliant

Applications

- ◆ TV, graphics, memory
- ◆ Notebooks, tablets
- ◆ Communication equipments, industrial equipments

Product Identification

1

MWSA

2

0412S

3

XXX

4

5

T

6

1

Type

MWSA

Molded SMD Power Inductors

3

Nominal Inductance[μH]

Example

Nominal Value[μH]

R15

0.15μH

1R0

1.0μH

4

Inductance Tolerance

M

± 20%

5

Packing

T

Tape & Reel

6

Design Code

Design Code

* Standard product is blank

2

External Dimensions (L×W×H) [mm]

0412

4.4×4.2×1.0

0402

4.4×4.2×1.8

0515

5.4×5.2×1.3

0518

5.4×5.2×1.6

0503

5.4×5.2×2.8

0615

7.0×6.6×1.3

0618

7.0×6.6×1.6

0602

7.0×6.6×1.8

0624

7.0×6.6×2.2

0603

7.0×6.6×2.8

0604

7.0/7.1×6.6×3.8

0605

7.0×6.6×4.8

0804

8.8×8.2×3.8

0805

8.8×8.2×5.0

1003

11.5×10.0×2.8

1004

11.0×10.0×3.8

1005

11.5×10.0×4.8

1204

13.45×12.8×4.0

1205

13.45×12.6×4.8

1206

13.45×12.6×5.8

1265

13.45×12.6×6.5

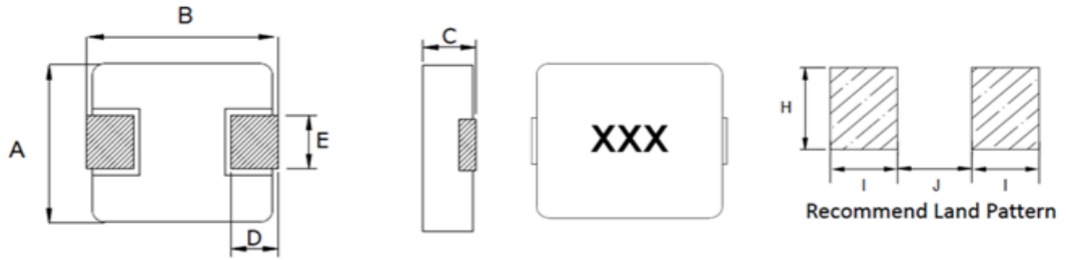
1707

17.15×17.15×6.7

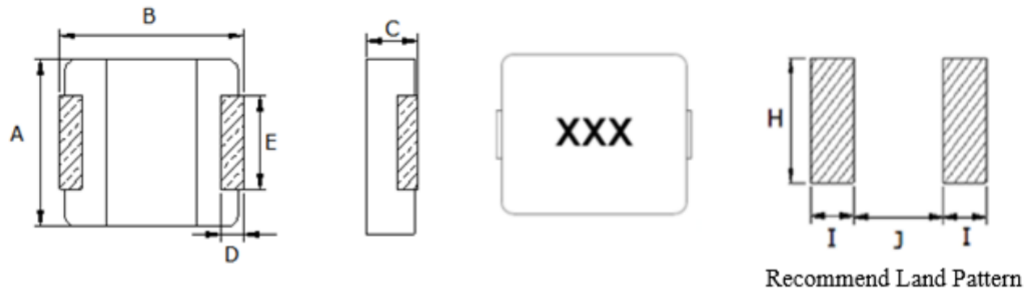
2213

23.5×22.0×12.6

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
MWSA0604S	6.6±0.2	7.0/7.1±0.3	3.8±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	See Remarks	See Remarks	2.75	4.0	5.5
MWSA0805S	8.2±0.3	8.8±0.4	5.0 Max.	1.4±0.3	5.0±0.3	2.8	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	D(mm)	E(mm)	Inductance
MWSA0804S	1.6±0.3	3.0±0.5	MWSA0804S-70NMT/MWSA0804S-R10MTB01
	1.4±0.3	5.0±0.3	Other models
MWSA1204S	/	3.85±0.5	< R68
	/	5.0±0.3	≥ R68
MWSA1205S	/	3.85±0.5	≤ 2R2
	/	5.0±0.3	> 2R2
MWSA1206S	/	3.85±0.5	≤ 2R2
	/	5.0±0.3	> 2R2

Specifications

MWSA0412S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA0412S-R15MT	0.15 $\pm$ 20%	9	12.0	15.0	6.8	7.5	50
MWSA0412S-R22MT	0.22 $\pm$ 20%	11	8.8	11.0	6.5	7.0	50
MWSA0412S-R33MT	0.33 $\pm$ 20%	19	6.7	8.4	5.7	6.5	50
MWSA0412S-R47MT	0.47 $\pm$ 20%	21	5.4	6.8	5.2	6.0	50
MWSA0412S-R68MT	0.68 $\pm$ 20%	36	4.8	6.0	4.2	4.7	50
MWSA0412S-1R0MT	1.0 $\pm$ 20%	47	4.4	5.5	3.8	4.5	50
MWSA0412S-1R5MT	1.5 $\pm$ 20%	75	3.2	4.0	2.7	3.25	50
MWSA0412S-2R2MT	2.2 $\pm$ 20%	83.5	2.4	3.0	2.2	2.75	50
MWSA0412S-3R3MT	3.3 $\pm$ 20%	160	2.38	2.7	1.77	2.0	50
MWSA0412S-4R7MT	4.7 $\pm$ 20%	195	1.8	2.2	1.45	1.8	50

MWSA0402S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA0402S-R10MT	0.10 $\pm$ 20%	4	17.6	22.0	11.2	13.0	60
MWSA0402S-R22MT	0.22 $\pm$ 20%	6.6	10.0	12.5	8.2	9.5	60
MWSA0402S-R33MT	0.33 $\pm$ 20%	11	9.6	12.0	8.6	10.0	60
MWSA0402S-R47MT	0.47 $\pm$ 20%	14	7.6	9.5	6.65	7.5	60
MWSA0402S-R56MT	0.56 $\pm$ 20%	16	7.2	9.0	6.1	7.0	60
MWSA0402S-R68MT	0.68 $\pm$ 20%	18	6.4	8.0	6.15	7.0	60
MWSA0402S-1R0MT	1.0 $\pm$ 20%	27	5.6	7.0	5.4	6.0	60
MWSA0402S-1R0MTB01	1.0 $\pm$ 20%	27	8.0	9.0	5.4	6.0	60
MWSA0402S-1R2MT	1.2 $\pm$ 20%	27	5.2	6.5	5.4	6.0	60
MWSA0402S-1R5MT	1.5 $\pm$ 20%	46	4.4	5.5	4.3	5.0	60
MWSA0402S-2R2MT	2.2 $\pm$ 20%	58	4.0	5.0	3.8	4.5	60
MWSA0402S-3R3MT	3.3 $\pm$ 20%	87	2.8	3.5	2.8	3.3	60
MWSA0402S-4R7MT	4.7 $\pm$ 20%	105	2.4	3.0	2.2	2.8	60
MWSA0402S-5R6MT	5.6 $\pm$ 20%	150	2.24	2.8	2.0	2.5	60
MWSA0402S-6R8MT	6.8 $\pm$ 20%	175	2.0	2.5	1.9	2.4	60
MWSA0402S-100MT	10 $\pm$ 20%	282	1.6	2.0	1.3	1.6	60
MWSA0402S-220MT	22 $\pm$ 20%	363	1.12	1.4	0.9	1.2	60

MWSA0515S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA0515S-R47MT	0.47 $\pm$ 20%	13	12.0	13.0	8.7	9.5	60
MWSA0515S-R68MT	0.68 $\pm$ 20%	15.5	9.5	11.2	8.1	9.0	60
MWSA0515S-1R0MT	1.0 $\pm$ 20%	23	8.0	9.5	5.8	6.5	60
MWSA0515S-2R2MT	2.2 $\pm$ 20%	52	4.8	5.8	4.0	5.0	60
MWSA0515S-3R3MT	3.3 $\pm$ 20%	72	4.0	4.5	3.0	3.3	60
MWSA0515S-4R7MT	4.7 $\pm$ 20%	106	3.7	4.2	2.6	3.0	60

Specifications

MWSA0518S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA0518S-R22MT	0.22 $\pm$ 20%	4.8	19.0	21.5	16.0	19.0	60
MWSA0518S-R33MT	0.33 $\pm$ 20%	7.2	17.0	19.0	14.0	16.0	60
MWSA0518S-R47MT	0.47 $\pm$ 20%	9	9.6	12.0	9.5	10.5	60
MWSA0518S-R56MT	0.56 $\pm$ 20%	10	8.8	11.0	8.2	9.5	60
MWSA0518S-R68MT	0.68 $\pm$ 20%	13.8	9.3	10.5	7.7	8.7	60
MWSA0518S-1R0MT	1.0 $\pm$ 20%	17	7.2	9.0	7.2	8.0	60
MWSA0518S-1R5MT	1.5 $\pm$ 20%	26	6.4	8.0	6.6	7.5	60
MWSA0518S-2R2MT	2.2 $\pm$ 20%	35	4.8	6.5	4.2	5.0	60
MWSA0518S-3R3MT	3.3 $\pm$ 20%	58	3.84	4.8	3.8	4.5	60
MWSA0518S-4R7MT	4.7 $\pm$ 20%	85	3.2	4.0	3.0	3.5	60
MWSA0518S-6R8MT	6.8 $\pm$ 20%	120	2.72	3.4	2.4	2.8	60
MWSA0518S-100MT	10 $\pm$ 20%	155	2.0	2.5	2.2	2.5	60

MWSA0503S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA0503S-R10MT	0.10 $\pm$ 20%	3	24.0	30.0	23.0	25.0	60
MWSA0503S-R20MT	0.20 $\pm$ 20%	3.9	16.0	20.0	13.0	14.0	60
MWSA0503S-R33MT	0.33 $\pm$ 20%	5.5	14.4	18.0	13.1	14.0	60
MWSA0503S-R47MT	0.47 $\pm$ 20%	8.5	12.0	15.0	10.0	11.0	60
MWSA0503S-R68MT	0.68 $\pm$ 20%	12	9.2	11.5	8.2	9.0	60
MWSA0503S-R82MT	0.82 $\pm$ 20%	10.4	9.2	10.5	9.0	10.5	60
MWSA0503S-1R0MT	1.0 $\pm$ 20%	14	8.0	10.0	7.8	8.5	60
MWSA0503S-1R2MT	1.2 $\pm$ 20%	16	7.6	9.5	7.85	8.5	60
MWSA0503S-1R5MT	1.5 $\pm$ 20%	25	7.2	9.0	7.6	8.2	60
MWSA0503S-2R2MT	2.2 $\pm$ 20%	29	5.6	7.0	6.4	7.0	60
MWSA0503S-3R3MT	3.3 $\pm$ 20%	38	4.8	6.0	5.0	5.5	60
MWSA0503S-4R7MT	4.7 $\pm$ 20%	60	3.68	4.6	4.0	4.5	60
MWSA0503S-6R8MT	6.8 $\pm$ 20%	90	2.88	3.6	2.9	3.5	60
MWSA0503S-100MT	10 $\pm$ 20%	125	2.8	3.5	2.8	3.2	60
MWSA0503S-150MT	15 $\pm$ 20%	170	2.0	2.2	1.6	1.8	60
MWSA0503S-220MT	22 $\pm$ 20%	248	2.1	2.3	1.3	1.5	60

MWSA0615S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA0615S-R47MT	0.47 $\pm$ 20%	8.5	14.16	16.0	8.85	10.0	60
MWSA0615S-R56MT	0.56 $\pm$ 20%	11	12.38	14.0	7.96	9.0	60
MWSA0615S-R68MT	0.68 $\pm$ 20%	12	10.62	12.0	7.52	8.5	60
MWSA0615S-R82MT	0.82 $\pm$ 20%	17	8.85	10.0	7.08	8.0	60
MWSA0615S-1R0MT	1.0 $\pm$ 20%	21	7.96	9.0	5.3	6.0	60
MWSA0615S-1R5MT	1.5 $\pm$ 20%	40	7.0	8.0	4.4	5.0	60
MWSA0615S-2R2MT	2.2 $\pm$ 20%	54	6.19	7.0	3.36	3.8	60
MWSA0615S-3R3MT	3.3 $\pm$ 20%	63	4.87	5.5	3.1	3.5	60
MWSA0615S-4R7MT	4.7 $\pm$ 20%	85	4.42	5.0	2.83	3.2	60
MWSA0615S-6R8MT	6.8 $\pm$ 20%	135	3.54	4.0	2.21	2.5	60
MWSA0615S-100MT	10 $\pm$ 20%	175	2.65	3.0	1.77	2.0	60
MWSA0615S-220MT	22 $\pm$ 20%	510	2.2	2.5	1.32	1.4	60

Specifications

MWSA0618S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA0618S-R10MT	0.10 $\pm$ 20%	2.3	30.4	38.0	23.0	25.0	60
MWSA0618S-R22MT	0.22 $\pm$ 20%	3.5	19.2	24.0	20.0	22.0	60
MWSA0618S-R47MT	0.47 $\pm$ 20%	8.4	16.0	18.0	10.0	11.5	60
MWSA0618S-R68MT	0.68 $\pm$ 20%	12	13.2	16.5	8.4	9.5	60
MWSA0618S-1R0MT	1.0 $\pm$ 20%	16	9.6	12.0	7.6	8.5	60
MWSA0618S-1R5MT	1.5 $\pm$ 20%	26	7.36	9.2	7.1	8.0	60
MWSA0618S-2R2MT	2.2 $\pm$ 20%	35	6.4	8.0	6.2	7.0	60
MWSA0618S-3R3MT	3.3 $\pm$ 20%	50	4.8	6.0	3.8	4.5	60
MWSA0618S-4R7MT	4.7 $\pm$ 20%	62	4.0	5.0	3.5	4.0	60
MWSA0618S-6R8MT	6.8 $\pm$ 20%	110	3.6	4.5	2.4	3.0	60
MWSA0618S-8R2MT	8.2 $\pm$ 20%	135	2.9	3.6	2.1	2.4	60
MWSA0618S-100MT	10 $\pm$ 20%	155	3.2	4.0	1.95	2.3	60
MWSA0618S-220MT	22 $\pm$ 20%	350	1.84	2.3	1.4	1.8	60

MWSA0602S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA0602S-1R5MT	1.5 $\pm$ 20%	18	10.0	12.0	7.0	8.0	60
MWSA0602S-4R7MT	4.7 $\pm$ 20%	60	4.5	5.5	3.5	4.3	60
MWSA0602S-6R8MT	6.8 $\pm$ 20%	73	5.0	5.5	3.5	4.0	60
MWSA0602S-100MT	10 $\pm$ 20%	145	3.2	4.0	2.2	2.8	60

MWSA0624S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA0624S-R22MT	0.22 $\pm$ 20%	3	24.0	30.0	19.0	21.0	80
MWSA0624S-R33MT	0.33 $\pm$ 20%	4.1	19.6	24.5	16.0	18.0	80
MWSA0624S-R47MT	0.47 $\pm$ 20%	5.1	16.0	20.0	13.5	15.0	80
MWSA0624S-R56MT	0.56 $\pm$ 20%	6.5	13.6	17.0	11.5	13.0	80
MWSA0624S-R68MT	0.68 $\pm$ 20%	7	12.8	16.0	10.5	12.0	80
MWSA0624S-1R0MT	1.0 $\pm$ 20%	13.5	12.0	15.0	8.0	9.0	80
MWSA0624S-1R5MT	1.5 $\pm$ 20%	20	10.8	13.5	7.0	8.2	80
MWSA0624S-2R2MT	2.2 $\pm$ 20%	28	8.0	10.0	6.2	7.0	80
MWSA0624S-3R3MT	3.3 $\pm$ 20%	39	6.4	8.0	4.8	5.5	80
MWSA0624S-4R7MT	4.7 $\pm$ 20%	50	5.2	6.5	4.3	5.0	80
MWSA0624S-6R8MT	6.8 $\pm$ 20%	70	4.8	6.0	3.2	4.0	80
MWSA0624S-100MT	10 $\pm$ 20%	101	3.3	4.0	2.4	3.1	80
MWSA0624S-150MT	15 $\pm$ 20%	160	2.64	3.3	2.0	2.5	80
MWSA0624S-220MT	22 $\pm$ 20%	230	2.0	2.5	1.6	2.0	80

Specifications

MWSA0603S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA0603S-R10MT	0.10 $\pm$ 20%	1.7	53.0	60.0	28.5	32.5	100
MWSA0603S-R12MT	0.12 $\pm$ 20%	0.77 $\pm$ 7%	30.0	40.0	32.0	38.0	100
MWSA0603S-R22MT	0.22 $\pm$ 20%	3	27.2	34.0	21.0	24.0	100
MWSA0603S-R24MT	0.24 $\pm$ 20%	3.1	22.4	28.0	18.4	23.0	100
MWSA0603S-R24MTY02	0.24 $\pm$ 20%	1.19 $\pm$ 7%	30.0	35.0	26.0	30.0	100
MWSA0603S-R33MT	0.33 $\pm$ 20%	3.5	20.0	25.0	19.0	21.0	100
MWSA0603S-R47MT	0.47 $\pm$ 20%	4.1	16.0	20.0	16.5	18.0	100
MWSA0603S-R56MT	0.56 $\pm$ 20%	4.5	14.4	18.0	15.0	16.5	100
MWSA0603S-R68MT	0.68 $\pm$ 20%	5.3	13.6	17.0	14.5	16.0	100
MWSA0603S-R82MT	0.82 $\pm$ 20%	6.0	12.8	16.0	12.5	14.0	100
MWSA0603S-1R0MT	1.0 $\pm$ 20%	7.4	12.0	15.0	10.5	12.0	100
MWSA0603S-1R5MT	1.5 $\pm$ 20%	12.1	9.6	12.0	10.5	12.0	100
MWSA0603S-1R5MTB01	1.5 $\pm$ 20%	11	11.2	14.0	9.5	10.5	100
MWSA0603S-1R8MT	1.8 $\pm$ 20%	12.6	9.4	11.8	8.2	9.3	100
MWSA0603S-2R2MT	2.2 $\pm$ 20%	15	8.0	10.0	8.5	9.5	100
MWSA0603S-3R3MT	3.3 $\pm$ 20%	22	7.6	9.5	7.5	8.5	100
MWSA0603S-4R7MT	4.7 $\pm$ 20%	33	7.2	9.0	5.0	6.0	100
MWSA0603S-5R6MT	5.6 $\pm$ 20%	42	5.2	6.5	4.8	5.5	100
MWSA0603S-6R8MT	6.8 $\pm$ 20%	48	4.8	6.0	4.2	5.0	100
MWSA0603S-8R2MT	8.2 $\pm$ 20%	60	4.4	5.5	4.2	5.0	100
MWSA0603S-100MT	10 $\pm$ 20%	68	4.4	5.5	3.8	4.5	100
MWSA0603S-150MT	15 $\pm$ 20%	113	3.2	4.0	2.3	3.0	100
MWSA0603S-220MT	22 $\pm$ 20%	170	2.4	3.0	2.0	2.5	100
MWSA0603S-330MT	33 $\pm$ 20%	270	2.0	2.5	1.6	2.0	100
MWSA0603S-330MTB01	33 $\pm$ 20%	210	2.0	2.5	1.7	2.2	100
MWSA0603S-470MT	47 $\pm$ 20%	385	1.6	2.0	1.2	1.5	100

MWSA0604S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA0604S-R15MT	0.15 $\pm$ 20%	0.66 $\pm$ 7%	45.0	50.0	36.0	40.0	100
MWSA0604S-R22MT	0.22 $\pm$ 20%	0.98 $\pm$ 7%	28.0	35.0	32.0	35.0	100
MWSA0604S-R68MT	0.68 $\pm$ 20%	4.8	17.0	19.0	16.0	17.0	100
MWSA0604S-1R0MT	1.0 $\pm$ 20%	6.6	15.0	16.0	12.5	13.5	100
MWSA0604S-1R5MT	1.5 $\pm$ 20%	10	12.0	12.5	11.0	12.4	100
MWSA0604S-2R2MT	2.2 $\pm$ 20%	14	10.0	11.0	8.5	10.0	100
MWSA0604S-3R3MT	3.3 $\pm$ 20%	20	8.7	9.5	7.8	8.5	100
MWSA0604S-4R7MT	4.7 $\pm$ 20%	30	8.0	9.0	6.0	6.5	100
MWSA0604S-6R8MT	6.8 $\pm$ 20%	45	6.0	6.5	5.0	5.5	100
MWSA0604S-100MT	10 $\pm$ 20%	65	5.0	6.0	4.0	4.8	100
MWSA0604S-100MTB01	10 $\pm$ 20%	63	5.5	6.5	4.1	5.0	100
MWSA0604S-150MT	15 $\pm$ 20%	95	4.0	4.5	3.2	3.7	100
MWSA0604S-220MT	22 $\pm$ 20%	125	3.5	4.0	3.0	3.3	100
MWSA0604S-330MT	33 $\pm$ 20%	240	2.5	3.0	2.0	2.2	100
MWSA0604S-470MT	47 $\pm$ 20%	320	2.0	2.5	1.6	1.8	100

Specifications

MWSA0605S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA0605S-R47MT	0.47 $\pm$ 20%	3.9	16.8	21.0	17.0	20.0	100
MWSA0605S-R68MT	0.68 $\pm$ 20%	4.5	14.4	18.0	14.5	16.5	100
MWSA0605S-1R0MT	1.0 $\pm$ 20%	6.6	12.8	16.0	10.0	12.0	100
MWSA0605S-1R5MT	1.5 $\pm$ 20%	10	10.4	13.0	8.2	9.5	100
MWSA0605S-2R2MT	2.2 $\pm$ 20%	12.5	8.8	11.0	8.0	9.0	100
MWSA0605S-3R3MT	3.3 $\pm$ 20%	22	8.0	10.0	7.6	8.5	100
MWSA0605S-4R7MT	4.7 $\pm$ 20%	29	6.4	8.0	5.0	6.0	100
MWSA0605S-6R8MT	6.8 $\pm$ 20%	41	5.04	6.3	4.0	5.8	100
MWSA0605S-8R2MT	8.2 $\pm$ 20%	48	4.4	5.5	4.8	5.5	100
MWSA0605S-100MT	10 $\pm$ 20%	60	4.24	5.3	3.8	4.5	100
MWSA0605S-150MT	15 $\pm$ 20%	90	3.2	4.0	2.6	3.1	100
MWSA0605S-220MT	22 $\pm$ 20%	140	2.8	3.5	2.0	2.6	100
MWSA0605S-330MT	33 $\pm$ 20%	190	2.4	3.0	1.8	2.3	100
MWSA0605S-470MT	47 $\pm$ 20%	230	2.08	2.6	1.5	2.0	100
MWSA0605S-680MT	68 $\pm$ 20%	320	2.0	2.5	1.3	1.8	100

MWSA0804S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA0804S-70NMT	0.07 $\pm$ 20%	0.6	60.0	78.0	40.0	51.0	100
MWSA0804S-R10MT	0.10 $\pm$ 20%	1.6	68.0	72.0	35.0	40.0	100
MWSA0804S-R10MTB01	0.10 $\pm$ 20%	0.7	53.0	65.0	36.0	46.0	100
MWSA0804S-R15MT	0.15 $\pm$ 20%	1.65	65.0	70.0	33.0	39.0	100
MWSA0804S-R22MT	0.22 $\pm$ 20%	1.8	55.0	60.0	30.0	36.0	100
MWSA0804S-R33MT	0.33 $\pm$ 20%	2.4	40.0	45.0	25.0	30.0	100
MWSA0804S-R47MT	0.47 $\pm$ 20%	2.8	36.0	42.0	25.0	28.0	100
MWSA0804S-R56MT	0.56 $\pm$ 20%	3.2	23.0	26.0	22.0	24.0	100
MWSA0804S-R68MT	0.68 $\pm$ 20%	3.8	22.0	24.0	21.0	23.0	100
MWSA0804S-R82MT	0.82 $\pm$ 20%	4.4	19.0	21.0	19.0	21.0	100
MWSA0804S-1R0MT	1.0 $\pm$ 20%	4.62	17.0	19.0	17.0	19.0	100
MWSA0804S-1R5MT	1.5 $\pm$ 20%	7.6	15.0	17.0	15.0	17.0	100
MWSA0804S-1R8MT	1.8 $\pm$ 20%	11	13.5	15.0	12.5	15.0	100
MWSA0804S-2R2MT	2.2 $\pm$ 20%	11.4	12.0	14.0	12.0	14.0	100
MWSA0804S-3R3MT	3.3 $\pm$ 20%	15	11.0	12.5	10.0	12.0	100
MWSA0804S-4R7MT	4.7 $\pm$ 20%	26.5	10.5	11.5	8.5	9.5	100
MWSA0804S-5R6MT	5.6 $\pm$ 20%	30	10.0	11.0	8.0	9.0	100
MWSA0804S-6R8MT	6.8 $\pm$ 20%	36.8	8.0	9.0	7.0	8.0	100
MWSA0804S-8R2MT	8.2 $\pm$ 20%	46	7.7	8.7	6.0	7.0	100
MWSA0804S-100MT	10 $\pm$ 20%	59	7.0	8.0	5.5	6.5	100
MWSA0804S-150MT	15 $\pm$ 20%	71	4.9	5.5	4.8	5.4	100
MWSA0804S-220MT	22 $\pm$ 20%	113	4.5	5.0	4.2	4.8	100
MWSA0804S-330MT	33 $\pm$ 20%	156	3.3	3.5	3.0	3.5	100
MWSA0804S-470MT	47 $\pm$ 20%	225	2.9	3.1	2.5	2.9	100

Specifications
MWSA0805S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA0805S-R50MT	0.5 $\pm$ 20%	2.4	30.0	40.5	25.0	28.1	100
MWSA0805S-2R2MT	2.2 $\pm$ 20%	12	14.0	16.0	8.5	10.0	100
MWSA0805S-3R3MT	3.3 $\pm$ 20%	15	11.5	13.0	8.0	9.0	100
MWSA0805S-4R7MT	4.7 $\pm$ 20%	20	10.5	12.0	7.0	8.0	100
MWSA0805S-100MT	10 $\pm$ 20%	45	7.0	8.0	4.8	5.5	100
MWSA0805S-150MT	15 $\pm$ 20%	50	6.0	7.0	4.5	5.0	100
MWSA0805S-220MT	22 $\pm$ 20%	88	4.8	5.5	3.5	4.0	100
MWSA0805S-330MT	33 $\pm$ 20%	140	4.5	5.0	2.5	3.0	100
MWSA0805S-470MT	47 $\pm$ 20%	195	3.0	3.5	2.2	2.5	100
MWSA0805S-680MT	68 $\pm$ 20%	265	2.5	3.0	1.7	2.0	100
MWSA0805S-101MT	100 $\pm$ 20%	326	2.0	2.5	1.3	1.5	100

MWSA1003S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA1003S-R22MT	0.22 $\pm$ 20%	1.2	44.24	50.0	29.2	33.0	100
MWSA1003S-R33MT	0.33 $\pm$ 20%	1.6	28.3	32.0	20.35	23.0	100
MWSA1003S-R36MT	0.36 $\pm$ 20%	1.6	24.8	28.0	20.35	23.0	100
MWSA1003S-R47MT	0.47 $\pm$ 20%	2.5	23.0	26.0	19.47	22.0	100
MWSA1003S-R82MT	0.82 $\pm$ 20%	3.7	20.35	23.0	15.93	18.0	100
MWSA1003S-1R0MT	1.0 $\pm$ 20%	6	18.58	21.0	13.27	15.0	100
MWSA1003S-1R5MT	1.5 $\pm$ 20%	7.5	17.69	20.0	11.5	13.0	100
MWSA1003S-2R2MT	2.2 $\pm$ 20%	9	12.38	14.0	9.73	11.0	100
MWSA1003S-3R3MT	3.3 $\pm$ 20%	16	10.61	12.0	7.96	9.0	100
MWSA1003S-4R7MT	4.7 $\pm$ 20%	22.5	8.84	10.0	6.19	7.0	100
MWSA1003S-6R8MT	6.8 $\pm$ 20%	40	7.0	8.0	4.8	5.5	100
MWSA1003S-8R2MT	8.2 $\pm$ 20%	45	6.2	7.0	4.42	5.0	100
MWSA1003S-100MT	10 $\pm$ 20%	55	5.75	6.5	3.98	4.5	100
MWSA1003S-150MT	15 $\pm$ 20%	65	5.3	6.0	3.5	4.0	100
MWSA1003S-220MT	22 $\pm$ 20%	99	4.4	5.0	2.65	3.0	100
MWSA1003S-330MT	33 $\pm$ 20%	160	3.53	4.0	2.3	2.6	100

MWSA1004S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA1004S-R13MT	0.13 $\pm$ 20%	0.55	63.0	92.0	63.0	72.0	100
MWSA1004S-R15MT	0.15 $\pm$ 20%	0.65	60.0	75.0	40.0	45.0	100
MWSA1004S-R22MT	0.22 $\pm$ 20%	1	48.0	60.0	30.0	35.0	100
MWSA1004S-R30MT	0.30 $\pm$ 20%	1.1	36.0	45.0	30.0	35.0	100
MWSA1004S-R33MT	0.33 $\pm$ 20%	1.15	36.0	45.0	28.0	32.0	100
MWSA1004S-R36MT	0.36 $\pm$ 20%	1.2	36.0	45.0	25.0	30.0	100
MWSA1004S-R45MT	0.45 $\pm$ 20%	1.5	34.0	43.0	25.0	30.0	100
MWSA1004S-R47MT	0.47 $\pm$ 20%	1.7	32.0	40.0	25.0	30.0	100
MWSA1004S-R56MT	0.56 $\pm$ 20%	1.8	26.4	33.0	20.0	25.0	100
MWSA1004S-R68MT	0.68 $\pm$ 20%	2.4	24.0	30.0	19.0	23.0	100
MWSA1004S-R80MT	0.80 $\pm$ 20%	2.7	23.2	29.0	19.0	23.0	100

Specifications

MWSA1004S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA1004S-1R0MT	1.0 $\pm$ 20%	3.3	22.4	28.0	16.0	19.0	100
MWSA1004S-1R5MT	1.5 $\pm$ 20%	4.2	19.2	24.0	14.0	16.0	100
MWSA1004S-1R8MT	1.8 $\pm$ 20%	4.5	16.0	20.0	14.0	16.0	100
MWSA1004S-2R2MT	2.2 $\pm$ 20%	7	13.2	16.5	10.0	12.0	100
MWSA1004S-2R7MT	2.7 $\pm$ 20%	12	14.4	18.0	10.0	12.0	100
MWSA1004S-3R3MT	3.3 $\pm$ 20%	11.8	12.8	16.0	9.5	11.0	100
MWSA1004S-4R7MT	4.7 $\pm$ 20%	20	10.4	13.0	7.5	9.0	100
MWSA1004S-6R8MT	6.8 $\pm$ 20%	25	9.6	12.0	7.0	8.5	100
MWSA1004S-8R2MT	8.2 $\pm$ 20%	27	7.2	9.0	6.8	8.0	100
MWSA1004S-100MT	10 $\pm$ 20%	30	6.8	8.5	6.9	7.8	100
MWSA1004S-150MT	15 $\pm$ 20%	45	5.6	7.0	5.6	6.5	100
MWSA1004S-220MT	22 $\pm$ 20%	66	4.4	5.5	4.2	5.0	100
MWSA1004S-330MT	33 $\pm$ 20%	92	3.84	4.8	3.8	4.4	100
MWSA1004S-470MT	47 $\pm$ 20%	145	3.1	3.5	2.8	3.3	100
MWSA1004S-680MT	68 $\pm$ 20%	195	2.4	3.0	2.0	2.5	100
MWSA1004S-820MT	82 $\pm$ 20%	285	2.3	2.8	2.1	2.3	100

MWSA1005S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA1005S-R22MT	0.22 $\pm$ 20%	0.8	57.5	65.0	32.5	37.0	100
MWSA1005S-R47MT	0.47 $\pm$ 20%	1.1	44.2	50.0	31.8	36.0	100
MWSA1005S-R68MT	0.68 $\pm$ 20%	1.95	34.0	37.0	21.0	23.0	100
MWSA1005S-1R0MT	1.0 $\pm$ 20%	3	28.0	30.0	20.3	23.0	100
MWSA1005S-1R5MT	1.5 $\pm$ 20%	3.8	22.0	25.0	18.5	21.0	100
MWSA1005S-2R2MT	2.2 $\pm$ 20%	6	16.8	19.0	13.2	15.0	100
MWSA1005S-3R3MT	3.3 $\pm$ 20%	10	14.0	16.0	11.5	13.0	100
MWSA1005S-4R7MT	4.7 $\pm$ 20%	14	13.2	15.0	9.7	11.0	100
MWSA1005S-5R6MT	5.6 $\pm$ 20%	17	12.3	14.0	8.5	9.5	100
MWSA1005S-6R8MT	6.8 $\pm$ 20%	18.5	12.3	14.0	8.0	9.0	100
MWSA1005S-100MT	10 $\pm$ 20%	28	8.8	10.0	7.0	8.0	100
MWSA1005S-150MT	15 $\pm$ 20%	42	6.5	7.5	5.7	6.5	100
MWSA1005S-220MT	22 $\pm$ 20%	50	5.3	6.0	5.0	5.5	100
MWSA1005S-330MT	33 $\pm$ 20%	86	4.6	5.2	4.2	4.8	100
MWSA1005S-470MT	47 $\pm$ 20%	127	4.0	4.5	3.2	3.7	100
MWSA1005S-680MT	68 $\pm$ 20%	185	2.8	3.2	2.4	2.7	100
MWSA1005S-820MT	82 $\pm$ 20%	280	3.0	3.5	1.7	2.0	100
MWSA1005S-101MT	100 $\pm$ 20%	290	2.5	2.8	1.8	2.1	100

MWSA1204S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA1204S-R22MT	0.22 $\pm$ 20%	0.9	40.0	50.0	38.0	42.0	100
MWSA1204S-R47MT	0.47 $\pm$ 20%	2	38.4	48.0	29.0	33.0	100
MWSA1204S-R68MT	0.68 $\pm$ 20%	3.5	37.6	47.0	24.0	28.0	100
MWSA1204S-R82MT	0.82 $\pm$ 20%	4.5	32.0	40.0	24.0	28.0	100

Specifications

MWSA1204S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA1204S-1R0MT	1.0 $\pm$ 20%	7.5	28.0	35.0	20.0	24.0	100
MWSA1204S-1R5MT	1.5 $\pm$ 20%	9.5	24.4	30.5	17.0	20.0	100
MWSA1204S-2R2MT	2.2 $\pm$ 20%	11.5	20.8	26.0	15.0	18.0	100
MWSA1204S-3R3MT	3.3 $\pm$ 20%	13	16.8	21.0	13.0	15.0	100
MWSA1204S-4R7MT	4.7 $\pm$ 20%	14.5	14.4	18.0	11.0	13.0	100
MWSA1204S-6R8MT	6.8 $\pm$ 20%	20	11.2	14.0	8.0	9.0	100
MWSA1204S-100MT	10 $\pm$ 20%	25	8.0	10.0	7.0	8.0	100
MWSA1204S-150MT	15 $\pm$ 20%	39	6.0	7.5	5.8	6.5	100
MWSA1204S-220MT	22 $\pm$ 20%	51	4.8	6.0	3.8	4.5	100

MWSA1205S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA1205S-R22MT	0.22 $\pm$ 20%	0.7	60.0	75.0	45.0	50.0	100
MWSA1205S-R36MT	0.36 $\pm$ 20%	0.85	40.0	50.0	37.0	42.0	100
MWSA1205S-R50MT	0.50 $\pm$ 20%	1.15	38.4	48.0	33.0	38.0	100
MWSA1205S-R68MT	0.68 $\pm$ 20%	1.55	36.8	46.0	29.0	33.0	100
MWSA1205S-R82MT	0.82 $\pm$ 20%	1.67	31.2	39.0	26.0	30.0	100
MWSA1205S-1R0MT	1.0 $\pm$ 20%	2.2	28.0	35.0	22.0	26.0	100
MWSA1205S-1R5MT	1.5 $\pm$ 20%	3.2	26.4	33.0	19.0	23.0	100
MWSA1205S-2R2MT	2.2 $\pm$ 20%	5	19.2	24.0	13.0	15.0	100
MWSA1205S-3R3MT	3.3 $\pm$ 20%	7	17.6	22.0	12.0	14.0	100
MWSA1205S-4R7MT	4.7 $\pm$ 20%	9	16.0	20.0	11.0	13.0	100
MWSA1205S-6R8MT	6.8 $\pm$ 20%	18	12.8	16.0	10.0	12.0	100
MWSA1205S-100MT	10 $\pm$ 20%	22	9.6	12.0	8.0	9.0	100
MWSA1205S-150MT	15 $\pm$ 20%	30	8.0	10.0	7.0	8.0	100
MWSA1205S-220MT	22 $\pm$ 20%	58	5.2	6.5	3.8	4.5	100
MWSA1205S-330MT	33 $\pm$ 20%	84	4.8	6.0	2.8	3.5	100
MWSA1205S-330MTY01	33 $\pm$ 20%	63	4.8	6.0	2.8	3.5	100
MWSA1205S-470MT	47 $\pm$ 20%	130	4.0	5.0	2.6	3.0	100

MWSA1206S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA1206S-1R5MT	1.5 $\pm$ 20%	2.9	27.0	30.0	23.0	27.0	100
MWSA1206S-2R2MT	2.2 $\pm$ 20%	4.2	24.0	28.0	18.0	22.0	100
MWSA1206S-3R3MT	3.3 $\pm$ 20%	6.8	21.0	25.0	14.0	17.0	100
MWSA1206S-4R7MT	4.7 $\pm$ 20%	9	19.2	24.0	12.0	15.0	100
MWSA1206S-5R6MT	5.6 $\pm$ 20%	11	18.0	22.5	11.0	13.0	100
MWSA1206S-6R8MT	6.8 $\pm$ 20%	13.5	15.2	19.0	10.0	12.0	100
MWSA1206S-8R2MT	8.2 $\pm$ 20%	16	10.8	13.5	9.0	11.0	100
MWSA1206S-100MT	10 $\pm$ 20%	20.7	11.1	12.5	8.5	10.0	100
MWSA1206S-120MT	12 $\pm$ 20%	23	8.0	10.0	7.8	9.0	100
MWSA1206S-150MT	15 $\pm$ 20%	29	7.2	9.0	7.5	8.5	100
MWSA1206S-180MT	18 $\pm$ 20%	35	6.4	8.0	6.5	7.5	100
MWSA1206S-220MT	22 $\pm$ 20%	39.5	6.0	7.5	6.0	7.0	100

Specifications

MWSA1206S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA1206S-270MT	27 $\pm$ 20%	56	5.2	6.5	5.0	6.0	100
MWSA1206S-330MT	33 $\pm$ 20%	75	4.8	6.0	4.8	5.5	100
MWSA1206S-470MT	47 $\pm$ 20%	90	4.4	5.5	4.2	5.0	100
MWSA1206S-680MT	68 $\pm$ 20%	140	3.6	4.5	3.2	4.0	100
MWSA1206S-101MT	100 $\pm$ 20%	200	2.8	3.5	2.5	3.0	100
MWSA1206S-121MT	120 $\pm$ 20%	235	2.56	3.2	1.7	2.0	100
MWSA1206S-151MT	150 $\pm$ 20%	350	2.16	2.7	1.2	1.5	100

MWSA1265S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA1265S-4R7MT	4.7 $\pm$ 20%	8.5	19.0	24.0	12.0	16.0	100
MWSA1265S-5R6MT	5.6 $\pm$ 20%	10.5	18.0	22.5	10.0	14.0	100
MWSA1265S-6R8MT	6.8 $\pm$ 20%	12	15.0	19.0	9.0	13.0	100
MWSA1265S-8R2MT	8.2 $\pm$ 20%	14	13.0	16.0	8.5	12.0	100
MWSA1265S-100MT	10 $\pm$ 20%	16.5	12.0	15.0	7.5	11.0	100
MWSA1265S-150MT	15 $\pm$ 20%	26	9.0	11.0	6.5	9.5	100
MWSA1265S-220MT	22 $\pm$ 20%	36	7.5	9.0	6.0	8.0	100
MWSA1265S-330MT	33 $\pm$ 20%	65	7.0	8.0	4.5	6.5	100
MWSA1265S-470MT	47 $\pm$ 20%	70	5.5	6.8	4.0	5.5	100
MWSA1265S-470MTB01	47 $\pm$ 20%	67	6.5	7.6	6.0	8.0	100
MWSA1265S-680MT	68 $\pm$ 20%	120	4.0	5.2	3.4	4.8	100
MWSA1265S-820MT	82 $\pm$ 20%	135	3.5	4.5	2.7	4.0	100
MWSA1265S-101MT	100 $\pm$ 20%	170	3.2	4.0	1.8	3.5	100

MWSA1707S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA1707S-1R0MT	1.0 $\pm$ 20%	1.5	43.0	50.0	30.0	35.0	100
MWSA1707S-1R5MT	1.5 $\pm$ 20%	2.1	35.0	40.0	29.0	33.0	100
MWSA1707S-2R2MT	2.2 $\pm$ 20%	2.5	30.0	34.0	25.5	29.0	100
MWSA1707S-3R3MT	3.3 $\pm$ 20%	3.95	26.0	30.0	21.0	24.0	100
MWSA1707S-4R7MT	4.7 $\pm$ 20%	4.75	21.0	24.0	18.5	21.0	100
MWSA1707S-6R8MT	6.8 $\pm$ 20%	7.5	19.5	22.0	15.0	17.0	100
MWSA1707S-8R2MT	8.2 $\pm$ 20%	8.7	17.5	20.0	11.5	13.0	100
MWSA1707S-100MT	10 $\pm$ 20%	9.9	16.5	19.0	10.5	12.0	100
MWSA1707S-150MT	15 $\pm$ 20%	17	12.5	14.5	9.5	11.0	100
MWSA1707S-220MT	22 $\pm$ 20%	23	10.0	11.5	7.5	8.5	100
MWSA1707S-330MT	33 $\pm$ 20%	37	8.5	10.0	7.0	8.0	100
MWSA1707S-470MT	47 $\pm$ 20%	47	6.5	7.5	5.3	6.0	100
MWSA1707S-560MT	56 $\pm$ 20%	66	6.3	7.2	5.1	5.8	100
MWSA1707S-680MT	68 $\pm$ 20%	85	5.5	6.5	4.5	5.2	100
MWSA1707S-820MT	82 $\pm$ 20%	110	5.3	6.0	4.0	4.5	100
MWSA1707S-101MT	100 $\pm$ 20%	130	4.4	5.0	3.2	3.7	100

Specifications

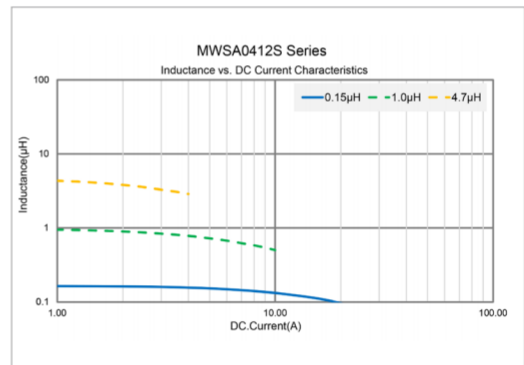
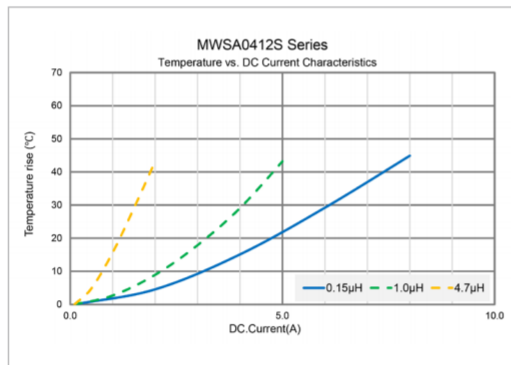
MWSA2213S Series

Part Number	Inductance	DC Resistance	Saturation Current		Heat Rating Current		Withstanding Voltage @1mA/3S
	@100KHz,1V	Max.	Max.	Typ.	Max.	Typ.	Max.
Units	μ H	m Ω	A		A		V
Symbol	L	DCR	Isat		Irms		/
MWSA2213S-1R0MT	1.0 $\pm$ 20%	0.95	54.0	60.0	65.0	70.0	100
MWSA2213S-1R5MT	1.5 $\pm$ 20%	1.15	48.0	52.0	57.0	62.0	100
MWSA2213S-2R2MT	2.2 $\pm$ 20%	1.25	43.0	48.0	52.0	58.0	100
MWSA2213S-3R3MT	3.3 $\pm$ 20%	1.75	37.0	41.0	47.0	49.0	100
MWSA2213S-4R7MT	4.7 $\pm$ 20%	2.2	34.0	38.0	44.0	47.0	100
MWSA2213S-6R8MT	6.8 $\pm$ 20%	3.1	32.0	36.0	36.0	40.0	100
MWSA2213S-7R3KT	7.3 $\pm$ 10%	3.9	28.0	33.0	32.0	36.0	100
MWSA2213S-100MT	10 $\pm$ 20%	4.15	20.0	28.0	30.0	33.0	100
MWSA2213S-150MT	15 $\pm$ 20%	6.12	18.0	23.0	23.0	26.0	100
MWSA2213S-220MT	22 $\pm$ 20%	11	14.0	15.0	18.0	22.0	100
MWSA2213S-330MT	33 $\pm$ 20%	15.4	10.5	12.0	16.0	19.0	100
MWSA2213S-470MT	47 $\pm$ 20%	20.8	10.0	12.0	14.0	17.0	100
MWSA2213S-680MT	68 $\pm$ 20%	29.5	9.0	12.0	12.0	14.0	100
MWSA2213S-820MT	82 $\pm$ 20%	34.2	7.7	9.0	10.0	12.0	100
MWSA2213S-101MT	100 $\pm$ 20%	40	7.5	9.0	9.5	11.0	100

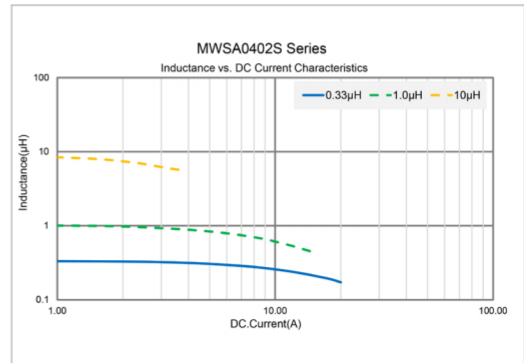
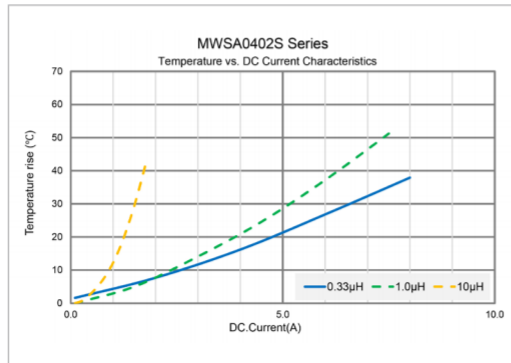
- ※1: All test data is referenced to 20°C ambient;
 ※2: Rated current: Isat or Irms, whichever is smaller;
 ※3: Isat(Typ): DC current at which the inductance drops approximate 30% from its value without current;
 ※4: Isat(Max): DC current at which the inductance drops approximate 30% from its value without current;
 ※5: Irms(Typ): DC current that causes the temperature rise ($\Delta T=40^{\circ}\text{C}$) from 20°C ambient;
 ※6: Irms(Max): DC current that causes the temperature rise ($\Delta T=20^{\circ}\text{C}$) from 20°C ambient.

Typical
Electrical
Characteristics

MWSA0412S Series

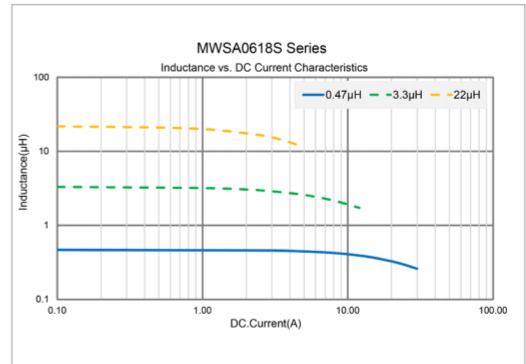
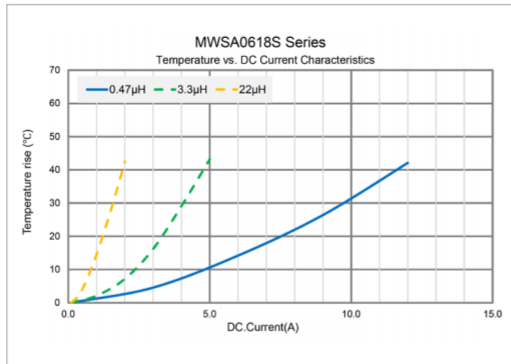


MWSA0402S Series

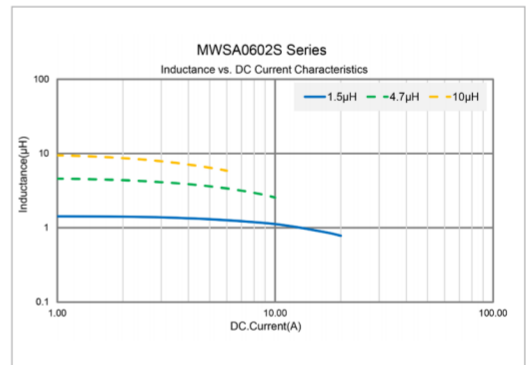
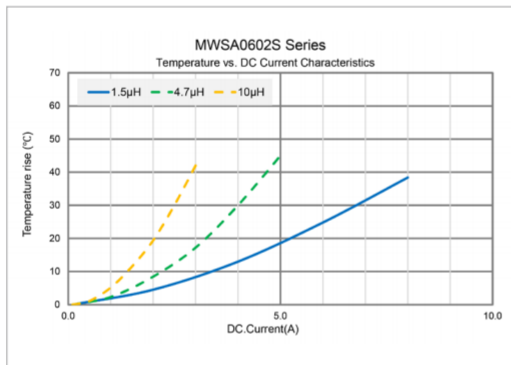


**Typical
Electrical
Characteristics**

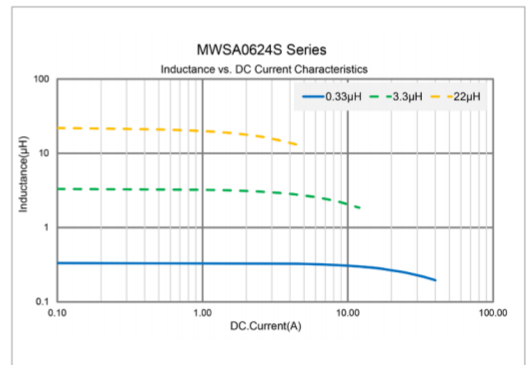
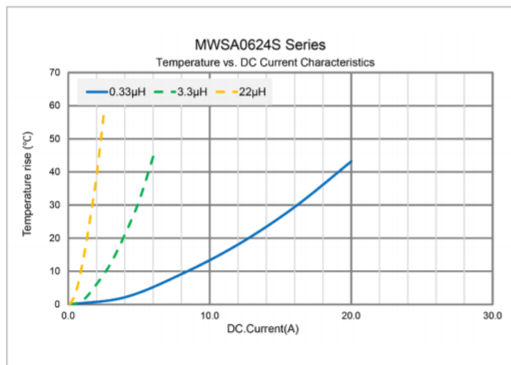
MWSA0618S Series



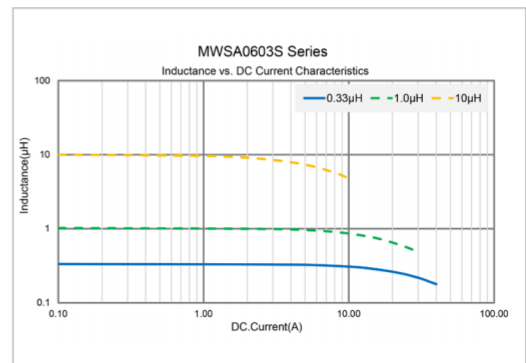
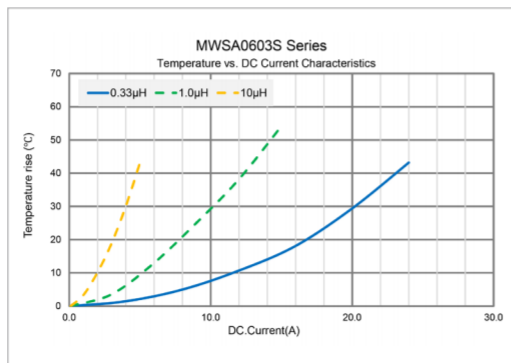
MWSA0602S Series



MWSA0624S Series

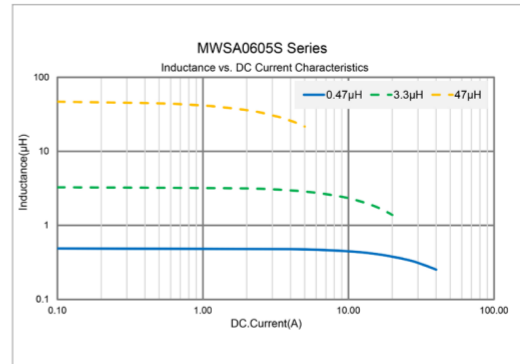
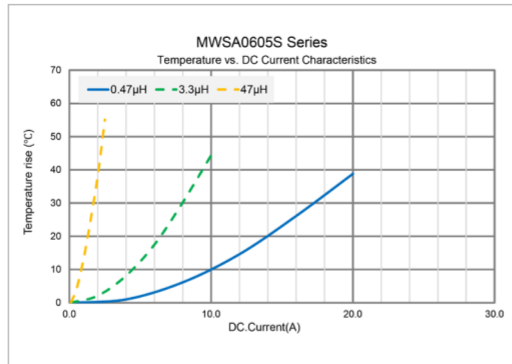


MWSA0603S Series

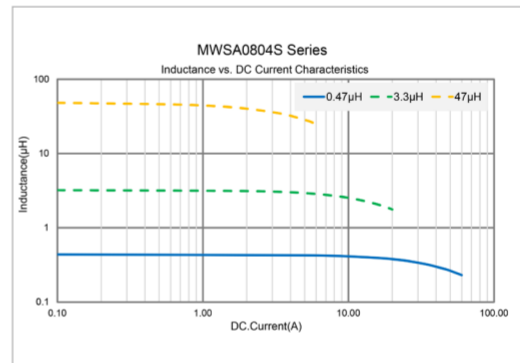
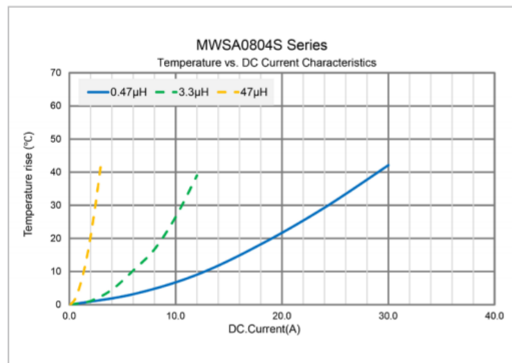


Typical Electrical Characteristics

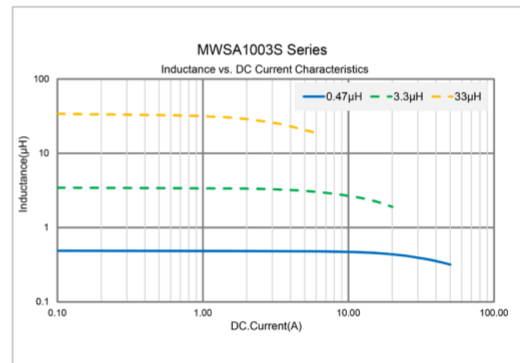
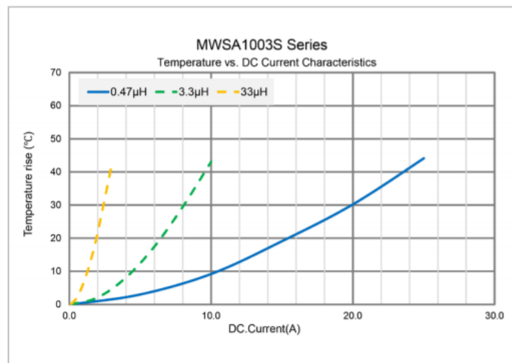
MWSA0605S Series



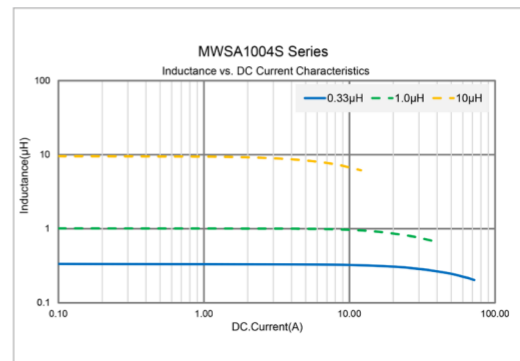
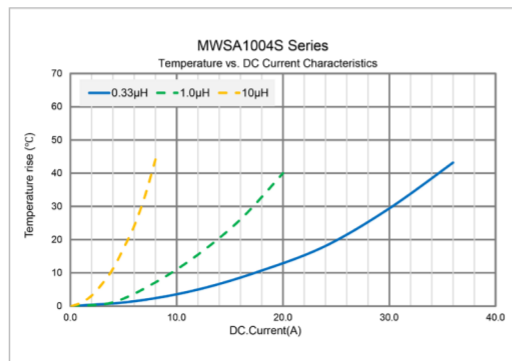
MWSA0804S Series



MWSA1003S Series

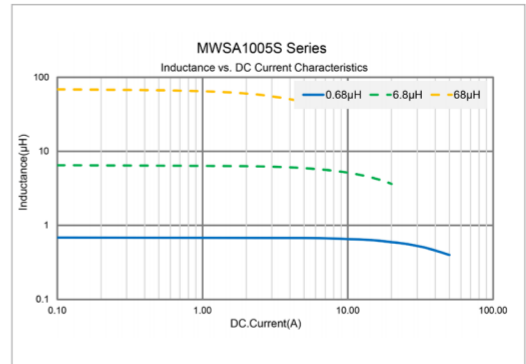
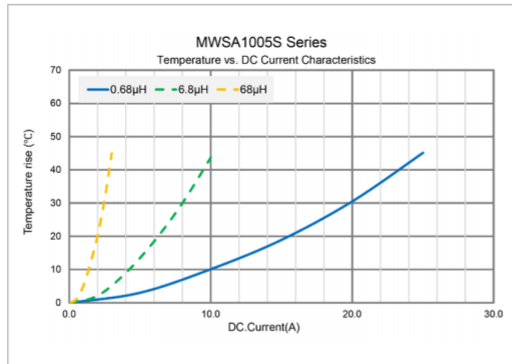


MWSA1004S Series

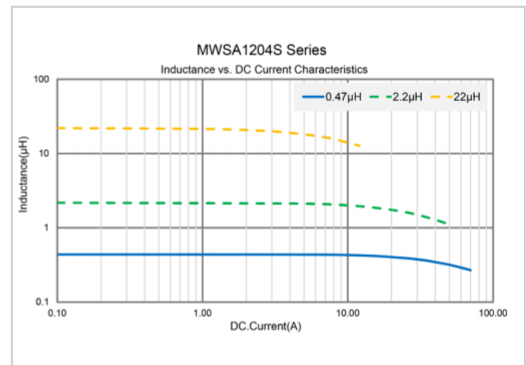
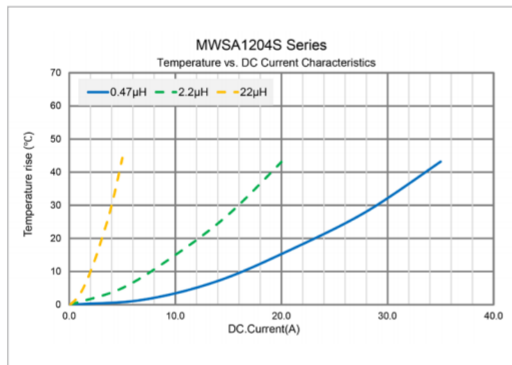


**Typical
Electrical
Characteristics**

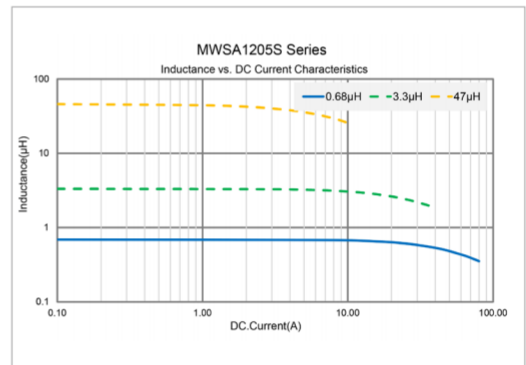
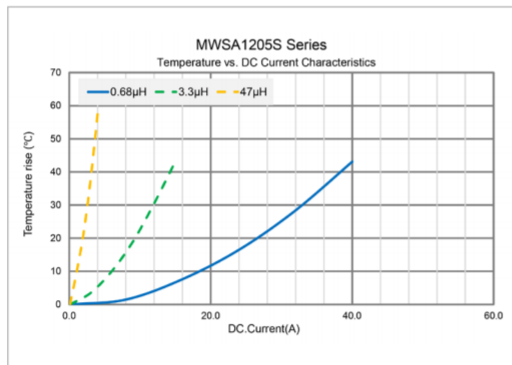
MWSA1005S Series



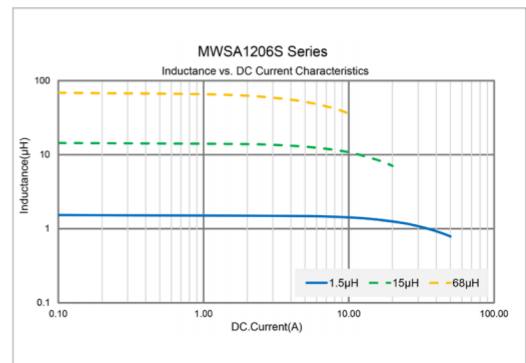
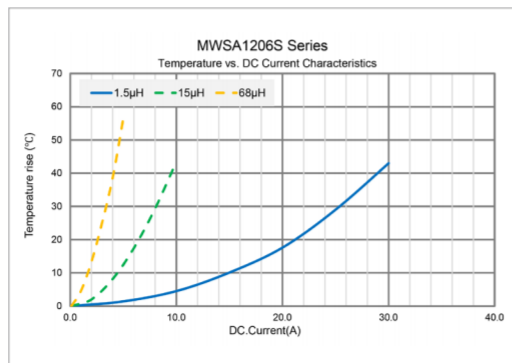
MWSA1204S Series



MWSA1205S Series

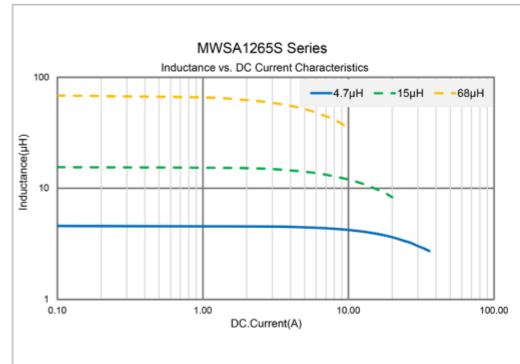
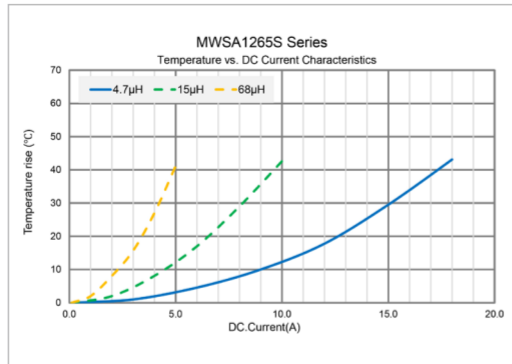


MWSA1206S Series

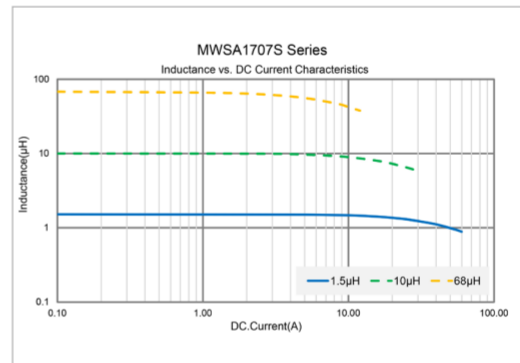
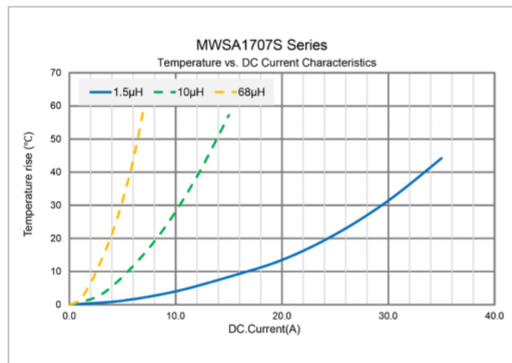


Typical Electrical Characteristics

MWSA1265S Series



MWSA1707S Series



MWSA2213S Series

