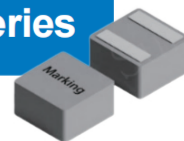


T-Core Flat Coil High Current Inductor – MWFC-S Series



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

Features

- ◆ Metal material for large current and low loss, low DCR.
- ◆ Low buzz noise, good magnetic shield performance
- ◆ Small parasitic capacitance
- ◆ Halogen free, RoHS compliant

Applications

- ◆ 5G Communications
- ◆ Internet of Things
- ◆ Security device

Product Identification

1	2	3	4	5	6
MWFC	0402S	XXX	□	T	□□□

1	Type
MWFC	T-Core Flat Coil High Current Inductor

2	External Dimensions(L×W×H) [mm]
0402	4.1×4.1×1.9
0403	4.1×4.1×2.8
0502	5.5×5.3×1.9
0503	5.5×5.3×2.9
0505	5.5×5.3×4.8
0603	6.6×6.4×2.8/2.9
0605	6.6×6.4×4.8
0606	6.6×6.4×5.8
0702	7.8×7.6×1.85
0703	7.8×7.6×2.9
0707	7.8×7.6×6.7
0808	8.9×8.5×7.7
1031	11.9×11.0×2.9
1006	11.9×11.0×5.7
1010	11.9×11.0×9.7
1507	16.5×15.5×6.7
1508	16.5×15.5×7.7
1510	16.5×15.5×9.7
1513	16.5×15.5×12.7

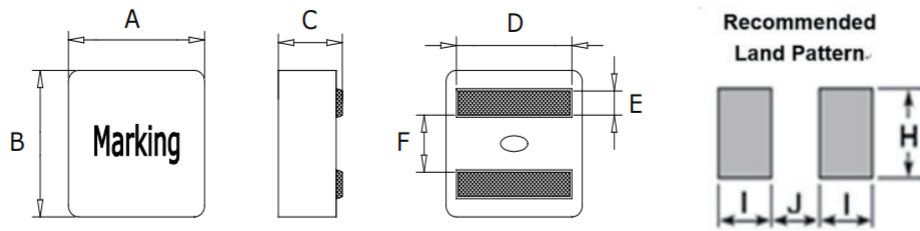
3	Nominal Inductance [μH]
Example	Nominal Value [μH]
1R0	1.0μH
1R5	1.5μH

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	F	I Typ.	J Typ.	H Typ.
MWFC0402S	4.1±0.2	4.1±0.2	1.9±0.2	3.4±0.3	0.88±0.3	1.7±0.3	1.0	1.4	3.8
MWFC0403S	4.1±0.25	4.1±0.25	2.8±0.2	3.4±0.3	0.88±0.3	1.7±0.3	1.0	1.4	3.8
MWFC0502S	5.5±0.2	5.3±0.2	1.9±0.2	4.5±0.3	1.1±0.3	2.3±0.3	1.25	2.0	4.7
MWFC0503S	5.5±0.2	5.3±0.2	2.9±0.2	4.5±0.3	1.1±0.3	2.3±0.3	1.25	2.0	4.7
MWFC0505S	5.5±0.2	5.3±0.2	4.8±0.2	4.5±0.3	1.1±0.3	2.3±0.3	1.25	2.0	4.7
MWFC0603S	6.6±0.2	6.4±0.2	2.8±0.2 (L ≤ 1.2μH)	5.4±0.3	1.5±0.3	2.6±0.3	1.55	2.5	5.6
			2.9±0.2 (L ≥ 1.5μH)						
MWFC0605S	6.6±0.2	6.4±0.2	4.8±0.2	5.4±0.3	1.5±0.3	2.6±0.3	1.55	2.5	5.6
MWFC0606S	6.6±0.2	6.4±0.2	5.8±0.2	5.4±0.3	1.5±0.3	2.6±0.3	1.55	2.5	5.6
MWFC0702S	7.8±0.25	7.6±0.2	1.85±0.2	6.3±0.3	1.75±0.3	3.15±0.3	2.3	2.8	7.2
MWFC0703S	7.8±0.25	7.6±0.2	2.9±0.2	6.3±0.3	1.75±0.3	3.15±0.3	2.3	2.8	7.2
MWFC0707S	7.8±0.25	7.6±0.2	6.7±0.3	6.3±0.3	1.75±0.3	3.15±0.3	2.3	2.8	7.2
MWFC0808S	8.9±0.3	8.5±0.3	7.7±0.3	7.2±0.3 (L ≤ 2.2μH)	1.7±0.3	3.5±0.5	2.65	2.7	7.8
				6.8±0.3 (L ≥ 3.3μH)					
MWFC1031S	11.9±0.3	11.0±0.3	2.9±0.2	9.5±0.5	2.3±0.3	4.4±0.5	3.4	3.7	11.0
MWFC1006S	11.9±0.3	11.0±0.3	5.7±0.3	9.5±0.5	2.3±0.3	4.5±0.5	3.4	3.7	11.0
MWFC1010S	11.9±0.3	11.0±0.3	9.7±0.3	9.5±0.5	2.3±0.3	4.4±0.5	3.4	3.7	11.0
MWFC1507S	16.5±0.3	15.5±0.3	6.7±0.3	13.5±0.5	3.0±0.3	7.0±0.5	4.5	6.0	15
MWFC1508S	16.5±0.3	15.5±0.3	7.7±0.3	13.5±0.5	3.0±0.3	7.0±0.5	4.5	6.0	15
MWFC1510S	16.5±0.3	15.5±0.3	9.7±0.3	13.5±0.5	3.0±0.3	7.0±0.5	4.5	6.0	15
MWFC1513S	16.5±0.3	15.5±0.3	12.7±0.3	13.5±0.5	3.0±0.3	7.0±0.5	4.5	6.0	15

Specifications

MWFC0402S Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz, 1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ		A		A	
Symbol	L	DCR		Isat		Irms	
MWFC0402S-R10MT	0.10±20%	2.5	2.14	33.00	37.80	13.50	18.00
MWFC0402S-R22MT	0.22±20%	4.6	4	18.80	19.50	13.00	16.80
MWFC0402S-R36MT	0.36±20%	6.5	5.5	14.50	16.50	11.00	14.50
MWFC0402S-R40MT	0.40±20%	7.73	6.8	13.50	15.50	10.00	14.00
MWFC0402S-R47MT	0.47±20%	8.58	7.8	12.70	14.20	9.00	12.50
MWFC0402S-R56MT	0.56±20%	9.3	8.2	12.60	14.00	8.50	12.00
MWFC0402S-R60MT	0.60±20%	9.52	8.4	12.30	13.70	8.00	11.70
MWFC0402S-R72MT	0.72±20%	11.9	10.2	10.60	12.00	7.60	10.50
MWFC0402S-1R0MT	1.0±20%	14.6	13	8.80	9.60	6.80	9.60
MWFC0402S-1R2MT	1.2±20%	17.9	15.8	7.80	9.00	6.60	9.00
MWFC0402S-1R5MT	1.5±20%	23.8	20.8	7.40	7.80	5.80	7.60
MWFC0402S-1R8MT	1.8±20%	28	24.7	7.00	7.50	5.20	7.00
MWFC0402S-2R2MT	2.2±20%	38.7	34.2	6.00	6.50	4.60	5.60

Specifications

MWFC0403S Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz, 1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ		A		A	
Symbol	L	DCR		Isat		Irms	
MWFC0403S-R47MT	0.47±20%	7.26	6.4	15.00	17.00	10.00	14.00
MWFC0403S-R90MT	0.90±20%	10.1	8.9	9.00	10.00	8.20	11.20
MWFC0403S-1R0MT	1.0±20%	10.1	8.9	9.20	9.80	8.00	11.00
MWFC0403S-1R2MT	1.2±20%	11.5	10.1	8.70	9.20	7.80	9.80
MWFC0403S-1R5MT	1.5±20%	13.2	11.6	7.00	8.00	7.00	9.00
MWFC0403S-2R2MT	2.2±20%	22.6	20	6.10	7.00	6.00	7.80
MWFC0403S-3R3MT	3.3±20%	28.6	25.3	5.30	6.20	5.00	6.60
MWFC0403S-4R7MT	4.7±20%	44.1	38.8	4.00	4.50	3.90	5.10
MWFC0403S-6R8MT	6.8±20%	74.1	65.2	3.00	3.60	3.00	3.90

MWFC0502S Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz, 1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ		A		A	
Symbol	L	DCR		Isat		Irms	
MWFC0502S-R15MT	0.15±20%	4.6	4	27.00	30.00	13.90	18.80
MWFC0502S-R16MT	0.16±20%	4.6	4	27.00	30.00	13.90	18.80
MWFC0502S-R33MT	0.33±20%	7.3	6.2	23.00	24.50	10.50	14.40
MWFC0502S-R47MT	0.47±20%	8.05	7.1	20.00	22.00	10.10	14.10
MWFC0502S-R56MT	0.56±20%	9.54	8.4	16.00	19.00	9.90	13.90
MWFC0502S-R68MT	0.68±20%	10.2	9	14.00	16.00	9.60	13.40
MWFC0502S-R80MT	0.80±20%	11.8	10.4	13.50	15.50	9.40	13.00
MWFC0502S-R82MT	0.82±20%	12.7	11.2	13.00	15.00	8.50	12.00
MWFC0502S-1R0MT	1.0±20%	13.8	12.2	12.80	14.50	7.50	10.50
MWFC0502S-1R2MT	1.2±20%	16.3	14.4	12.20	14.00	6.80	9.40
MWFC0502S-1R5MT	1.5±20%	18.7	16.5	10.50	11.50	6.40	8.80

MWFC0503S Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz, 1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ		A		A	
Symbol	L	DCR		Isat		Irms	
MWFC0503S-R15MT	0.15±20%	2.31	2.04	32.50	36.00	14.30	22.20
MWFC0503S-R16MT	0.16±20%	2.33	2.06	32.00	35.00	14.20	22.20
MWFC0503S-R47MT	0.47±20%	4.13	3.65	24.00	26.00	13.70	18.40
MWFC0503S-R56MT	0.56±20%	4.52	4	20.20	22.20	13.60	17.70
MWFC0503S-R60MT	0.60±20%	4.52	4	19.50	21.00	13.60	17.70
MWFC0503S-R80MT	0.80±20%	5.65	5	18.00	20.00	10.10	13.10
MWFC0503S-R82MT	0.82±20%	5.78	5.11	17.60	19.70	9.90	12.90
MWFC0503S-1R0MT	1.0±20%	7.6	6.7	14.30	16.50	9.00	12.20
MWFC0503S-1R2MT	1.2±20%	9.7	8.5	13.50	15.00	8.50	11.00
MWFC0503S-1R5MT	1.5±20%	11.2	9.9	12.50	14.00	8.00	10.50
MWFC0503S-1R8MT	1.8±20%	12.7	11.2	11.30	12.30	7.60	10.10
MWFC0503S-2R2MT	2.2±20%	14.5	12.8	9.00	10.00	7.20	9.70
MWFC0503S-3R3MT	3.3±20%	23.1	20.4	8.70	9.50	5.90	8.10
MWFC0503S-4R7MT	4.7±20%	36.3	32.1	7.00	8.20	4.30	5.90

Specifications

MWFC0505S Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ		A		A	
Symbol	L	DCR		Isat		Irms	
MWFC0505S-5R6MT	5.6±20%	24.2	21.4	7.20	8.60	5.30	7.20
MWFC0505S-6R8MT	6.8±20%	28.6	25.3	6.60	7.80	4.80	6.40
MWFC0505S-8R2MT	8.2±20%	32.5	29.55	6.10	7.20	4.60	6.10
MWFC0505S-100MT	10±20%	43	39.1	5.40	6.50	3.80	5.00

MWFC0603S Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ		A		A	
Symbol	L	DCR		Isat		Irms	
MWFC0603S-R18MT	0.18±20%	1.75	1.54	36.00	40.00	24.00	32.00
MWFC0603S-R28MT	0.28±20%	2.4	2.12	28.00	32.50	20.50	25.50
MWFC0603S-R33MT	0.33±20%	2.5	2.21	28.00	32.00	20.00	25.00
MWFC0603S-R47MT	0.47±20%	2.7	2.2	18.70	26.50	18.10	25.00
MWFC0603S-R56MT	0.56±20%	3.31	2.92	24.50	28.00	17.00	22.00
MWFC0603S-R68MT	0.68±20%	5.17	4.57	21.00	25.00	15.00	20.00
MWFC0603S-R68MTY01	0.68±20%	3.5	2.9	15.30	22.00	15.80	22.50
MWFC0603S-1R0MT	1.0±20%	6.05	5.35	18.00	23.00	13.00	18.00
MWFC0603S-1R2MT	1.2±20%	7.4	6.54	16.00	22.00	12.00	16.00
MWFC0603S-1R5MT	1.5±20%	9.13	8	15.50	20.00	11.00	15.00
MWFC0603S-1R8MT	1.8±20%	10.2	9	13.00	14.20	10.00	14.00
MWFC0603S-2R2MT	2.2±20%	12.2	10.7	11.00	15.90	7.00	10.00
MWFC0603S-3R3MT	3.3±20%	20.8	18.4	9.00	12.20	6.00	8.00
MWFC0603S-4R5MT	4.5±20%	25.3	22.4	8.00	9.00	5.00	7.00

MWFC0605S Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ		A		A	
Symbol	L	DCR		Isat		Irms	
MWFC0605S-R82MT	0.82±20%	4.18	3.7	20.00	24.00	16.00	21.00
MWFC0605S-1R0MT	1.0±20%	4.52	4	18.00	23.00	15.00	20.00
MWFC0605S-1R2MT	1.2±20%	5.83	5.1	16.00	21.00	14.00	18.00
MWFC0605S-1R5MT	1.5±20%	6.3	5.5	14.50	19.50	13.00	17.00
MWFC0605S-1R8MT	1.8±20%	7.1	6.2	13.50	18.50	12.00	16.00
MWFC0605S-2R2MT	2.2±20%	8.5	7.5	12.00	16.00	10.00	13.00
MWFC0605S-3R3MT	3.3±20%	12.5	11	10.00	12.50	8.50	11.00
MWFC0605S-4R3MT	4.3±20%	16.2	14.3	8.50	11.00	7.00	9.00
MWFC0605S-4R7MT	4.7±20%	18.4	16.2	8.00	10.50	6.50	8.50

Specifications

MWFC0606S Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ		A		A	
Symbol	L	DCR		Isat		Irms	
MWFC0606S-1R0MT	1.0±20%	4.4	3.89	19.00	24.00	16.00	21.00
MWFC0606S-1R5MT	1.5±20%	6.1	5.39	15.00	20.00	13.50	17.50
MWFC0606S-2R2MT	2.2±20%	8.1	7.16	12.50	16.50	11.00	14.00
MWFC0606S-3R3MT	3.3±20%	12.3	10.88	11.00	13.00	9.00	12.00
MWFC0606S-4R7MT	4.7±20%	14.4	13.1	9.30	10.50	8.50	11.00
MWFC0606S-5R6MT	5.6±20%	15.9	14.46	8.70	9.90	7.60	10.00
MWFC0606S-6R8MT	6.8±20%	20.8	18.9	8.10	9.20	7.00	9.00
MWFC0606S-8R2MT	8.2±20%	26.4	23.3	8.00	8.40	6.00	8.00
MWFC0606S-100MT	10±20%	29.82	26.5	6.80	7.60	5.00	7.00
MWFC0606S-150MT	15±20%	43.75	38.7	5.00	5.80	4.50	6.00
MWFC0606S-220MT	22±20%	60.63	53.6	4.80	5.60	3.80	5.00

MWFC0702S Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ		A		A	
Symbol	L	DCR		Isat		Irms	
MWFC0702S-R27MT	0.27±20%	3.5	3.1	32.00	35.00	16.00	21.00
MWFC0702S-R31MT	0.31±20%	4.8	4.2	31.00	34.00	14.00	20.00
MWFC0702S-R33MT	0.33±20%	4.8	4.2	31.00	34.00	13.00	19.00
MWFC0702S-R47MT	0.47±20%	6.2	5.5	25.00	28.00	12.00	17.00
MWFC0702S-R68MT	0.68±20%	9.2	8.1	23.00	25.00	10.00	13.00
MWFC0702S-1R0MT	1.0±20%	10.8	9.5	20.00	23.00	8.00	11.00

MWFC0703S Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ		A		A	
Symbol	L	DCR		Isat		Irms	
MWFC0703S-1R0MT	1.0±20%	5	4.5	28.00	30.00	16.10	21.80
MWFC0703S-1R5MT	1.5±20%	8.25	7.3	23.50	25.00	12.00	15.30
MWFC0703S-2R2MT	2.2±20%	13.7	12.1	17.00	19.00	10.00	13.00
MWFC0703S-2R7MT	2.7±20%	15.4	13.6	13.50	16.00	9.20	11.40
MWFC0703S-3R3MT	3.3±20%	18	15.9	13.00	15.00	8.00	10.00
MWFC0703S-4R7MT	4.7±20%	26.7	23.6	12.00	13.00	6.90	9.00
MWFC0703S-5R6MT	5.6±20%	33.2	28.1	11.50	12.50	5.30	7.30
MWFC0703S-6R8MT	6.8±20%	42.5	37.6	11.00	12.00	4.50	6.80
MWFC0703S-8R2MT	8.2±20%	48.73	43	9.00	10.20	3.00	5.90

Specifications

MWFC0707S Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz, 1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ		A		A	
Symbol	L	DCR		Isat		Irms	
MWFC0707S-1R0MT	1.0±20%	2.81	2.48	31.80	34.80	20.00	25.00
MWFC0707S-1R8MT	1.8±20%	4.46	3.94	23.00	25.00	15.80	21.00
MWFC0707S-2R2MT	2.2±20%	6.33	5.6	17.60	19.60	13.20	17.80
MWFC0707S-3R3MT	3.3±20%	9.42	8.3	15.10	19.40	11.50	15.10
MWFC0707S-4R7MT	4.7±20%	13.5	11.9	13.50	15.20	10.50	13.60
MWFC0707S-6R8MT	6.8±20%	19.6	17.3	11.00	12.80	7.00	9.50

MWFC0808S Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz, 1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ		A		A	
Symbol	L	DCR		Isat		Irms	
MWFC0808S-1R8MT	1.8±20%	4	3.5	24.00	28.00	18.00	24.00
MWFC0808S-2R2MT	2.2±20%	4.3	3.8	22.00	25.00	16.00	21.50
MWFC0808S-3R3MT	3.3±20%	7.3	6.5	20.00	23.00	13.50	18.00
MWFC0808S-4R7MT	4.7±20%	9.8	8.6	15.00	16.50	10.50	14.60
MWFC0808S-6R8MT	6.8±20%	14.3	12.6	12.50	14.50	8.00	11.30
MWFC0808S-100MT	10±20%	22.9	20.2	10.00	11.00	6.60	8.70

MWFC1031S Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz, 1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ		A		A	
Symbol	L	DCR		Isat		Irms	
MWFC1031S-R28MT	0.28±20%	1.6	1.4	58.00	65.00	25.50	35.00
MWFC1031S-R56MT	0.56±20%	2.75	2.4	39.00	44.00	23.00	32.00
MWFC1031S-R82MT	0.82±20%	4.1	3.6	32.00	38.00	18.00	25.00
MWFC1031S-R90MT	0.90±20%	4.2	3.5	31.00	36.00	17.00	24.00
MWFC1031S-1R0MT	1.0±20%	4.95	4.3	30.00	35.00	16.00	23.00
MWFC1031S-1R5MT	1.5±20%	6.6	5.8	25.00	30.00	12.00	18.00

MWFC1006S Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz, 1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ		A		A	
Symbol	L	DCR		Isat		Irms	
MWFC1006S-R68MT	0.68±20%	1.5	1.32	50.00	55.00	22.50	34.00
MWFC1006S-1R0MT	1.0±20%	2.32	2.05	44.00	48.00	20.00	28.50
MWFC1006S-1R2MT	1.2±20%	2.64	2.33	40.00	45.00	18.00	26.50
MWFC1006S-1R5MT	1.5±20%	3.3	3	36.00	40.00	16.00	24.50
MWFC1006S-2R2MT	2.2±20%	4.84	4.28	30.00	35.00	14.00	20.00
MWFC1006S-3R3MT	3.3±20%	7.7	6.8	25.00	28.00	11.40	16.80
MWFC1006S-4R7MT	4.7±20%	10.72	9.48	22.00	25.00	8.70	14.00

Specifications

MWFC1010S Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz, 1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ		A		A	
Symbol	L	DCR		Isat		Irms	
MWFC1010S-3R3MT	3.3±20%	4.1	3.6	23.40	27.40	18.20	25.00
MWFC1010S-4R7MT	4.7±20%	5.7	5	21.40	25.40	17.50	24.00
MWFC1010S-5R6MT	5.6±20%	7.2	6.3	19.60	23.60	15.70	21.20
MWFC1010S-6R8MT	6.8±20%	8.9	7.8	18.50	21.80	14.00	18.50
MWFC1010S-8R2MT	8.2±20%	12.4	11	16.30	18.30	12.90	17.10
MWFC1010S-100MT	10±20%	13.75	12.1	14.60	17.50	11.50	15.50
MWFC1010S-150MT	15±20%	19.3	17	12.50	15.00	9.90	13.80

MWFC1507S Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz, 1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ		A		A	
Symbol	L	DCR		Isat		Irms	
MWFC1507S-5R3MT	5.3±20%	5.34	4.7	30.00	34.00	19.00	25.00
MWFC1507S-8R2MT	8.2±20%	7.9	7	20.00	24.00	13.00	18.00
MWFC1507S-100MT	10±20%	9	8	18.00	22.00	10.00	16.00

MWFC1508S Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz, 1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ		A		A	
Symbol	L	DCR		Isat		Irms	
MWFC1508S-2R0MT	2.0±20%	2.21	1.95	52.00	57.00	29.5	40.00
MWFC1508S-2R2MT	2.2±20%	2.48	2.20	49.00	55.00	28.0	37.00
MWFC1508S-3R0MT	3.0±20%	3	2.65	41.00	46.00	26.0	34.50
MWFC1508S-4R2MT	4.2±20%	4.68	4.14	33.00	38.00	20.5	27.00
MWFC1508S-5R3MT	5.3±20%	5.34	4.72	31.00	35.00	19.5	26.00
MWFC1508S-6R2MT	6.2±20%	6.5	5.75	31.00	34.00	17.0	23.00
MWFC1508S-7R2MT	7.2±20%	7.2	6.37	29.00	32.00	15.0	21.00
MWFC1508S-8R2MT	8.2±20%	7.92	7	25.00	28.00	13.0	19.00
MWFC1508S-100MT	10±20%	9.6	8.49	21.00	24.00	11.0	16.00
MWFC1508S-150MT	15±20%	15	13.27	18.00	21.00	10.00	13.00
MWFC1508S-220MT	22±20%	23.2	20.53	16.00	19.00	9.00	12.00

MWFC1510S Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz, 1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	mΩ		A		A	
Symbol	L	DCR		Isat		Irms	
MWFC1510S-4R7MT	4.7±20%	3.8	3.5	39.00	43.00	22.00	30.00
MWFC1510S-5R6MT	5.6±20%	4.2	3.7	34.00	38.00	21.00	28.00
MWFC1510S-6R8MT	6.8±20%	4.6	4.1	31.00	36.00	20.00	26.00
MWFC1510S-8R2MT	8.2±20%	7.2	6	28.00	32.00	19.00	25.00
MWFC1510S-100MT	10±20%	8.6	6.8	23.50	26.50	16.00	22.00
MWFC1510S-150MT	15±20%	11.5	10.2	18.00	20.00	14.00	18.00
MWFC1510S-220MT	22±20%	15.8	13.9	16.00	18.00	10.50	14.20
MWFC1510S-240MT	24±20%	15.8	13.9	16.00	18.00	10.50	14.20
MWFC1510S-330MT	33±20%	20	17.7	14.00	16.70	8.60	12.30

Specifications

MWFC1513S Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100KHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	$\text{m}\Omega$		A		A	
Symbol	L	DCR		Isat		Irms	
MWFC1513S-4R7MT	$4.7 \pm 20\%$	3.3	2.9	40.00	44.00	23.00	31.00
MWFC1513S-5R6MT	$5.6 \pm 20\%$	3.9	3.4	35.00	40.00	22.00	29.00
MWFC1513S-6R8MT	$6.8 \pm 20\%$	4.2	3.7	32.00	37.00	21.00	27.00
MWFC1513S-8R2MT	$8.2 \pm 20\%$	5.74	5	29.00	33.00	20.00	26.00
MWFC1513S-100MT	$10 \pm 20\%$	7	6.2	27.00	30.00	19.00	25.00
MWFC1513S-150MT	$15 \pm 20\%$	7.5	6.6	21.00	25.50	16.00	22.00
MWFC1513S-220MT	$22 \pm 20\%$	13.86	12.3	19.00	22.00	12.00	17.00
MWFC1513S-330MT	$33 \pm 20\%$	22.2	19.6	16.00	19.00	9.00	14.00

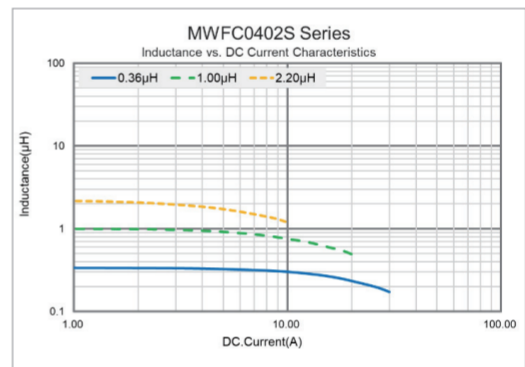
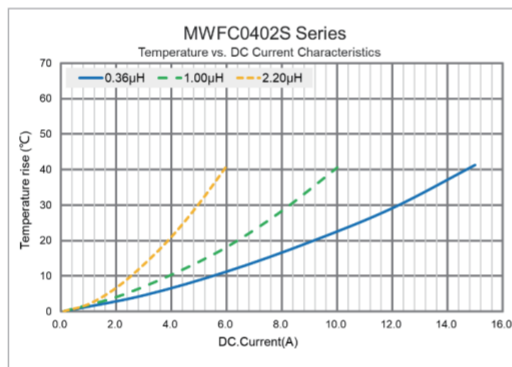
※1: Rated current: Isat or Irms, whichever is smaller;

※2: Isat: DC current at which the inductance drops approximate 35% from its value without current;

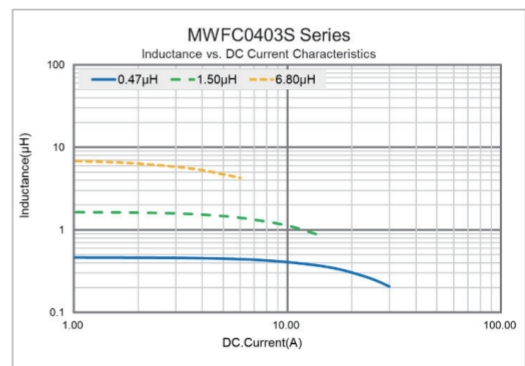
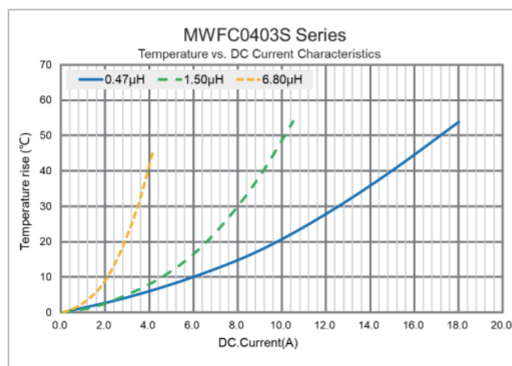
※3: Irms: DC current that causes the temperature rise ($\Delta T=40^\circ\text{C}$) from 20°C ambient.

Typical
Electrical
Characteristics

MWFC0402S Series

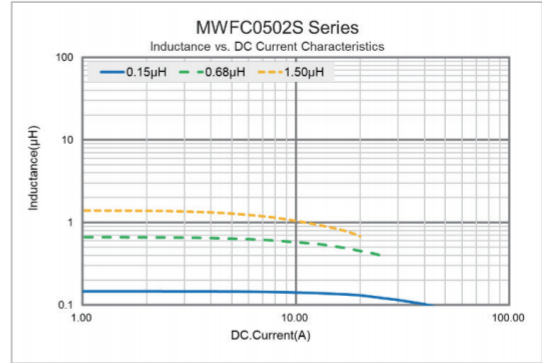
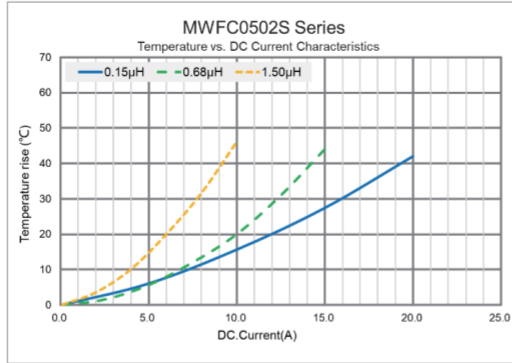


MWFC0403S Series

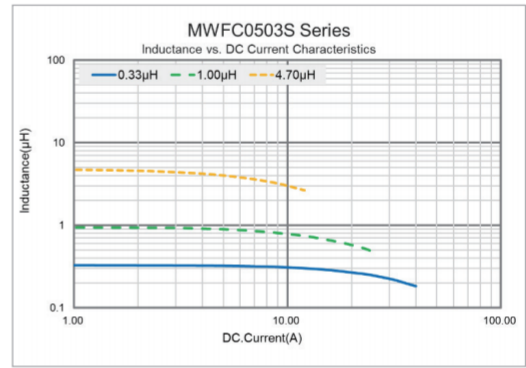
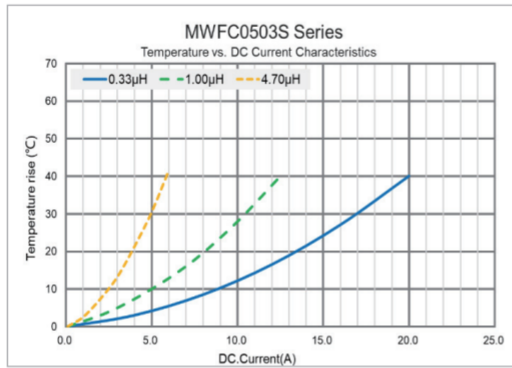


**Typical
Electrical
Characteristics**

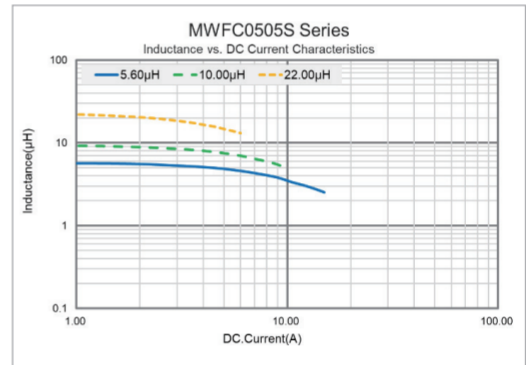
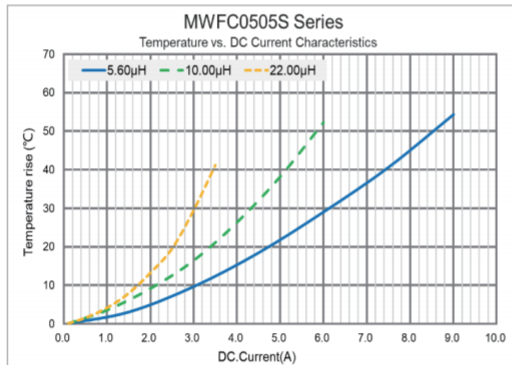
MWFC0502S Series



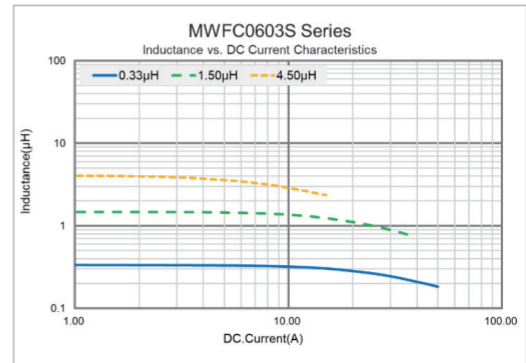
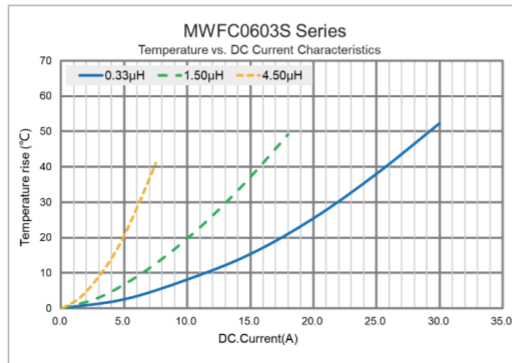
MWFC0503S Series



MWFC0505S Series

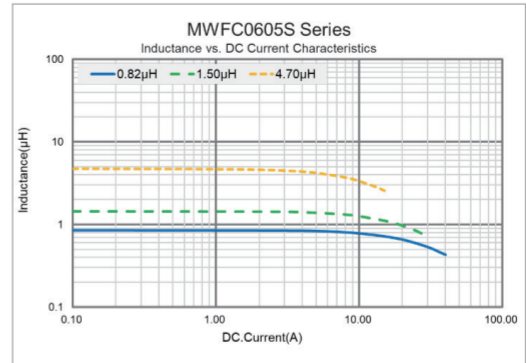
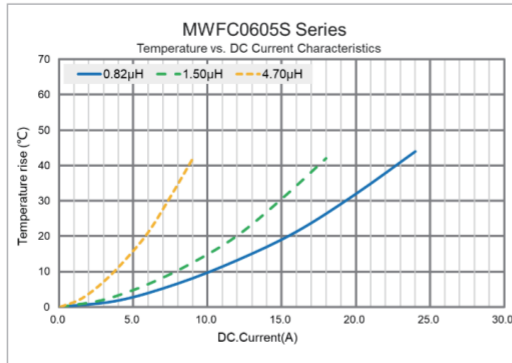


MWFC0603S Series

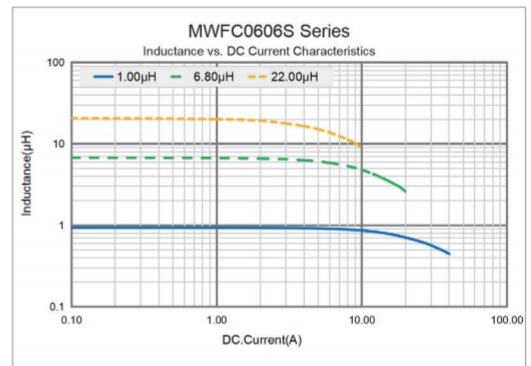
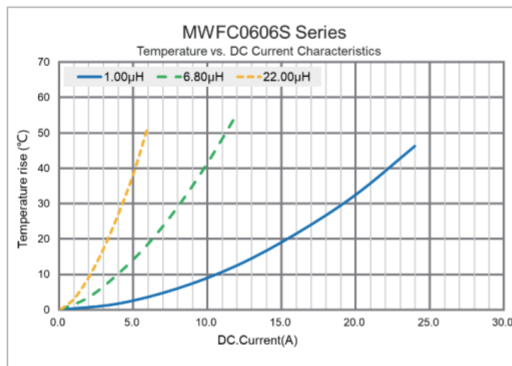


Typical Electrical Characteristics

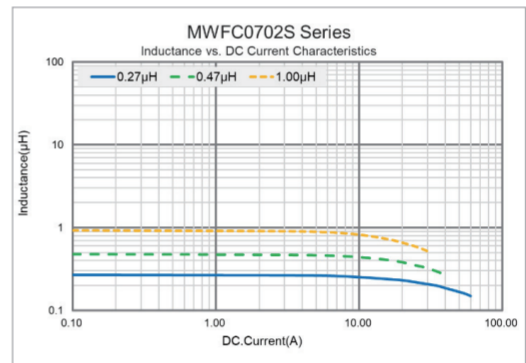
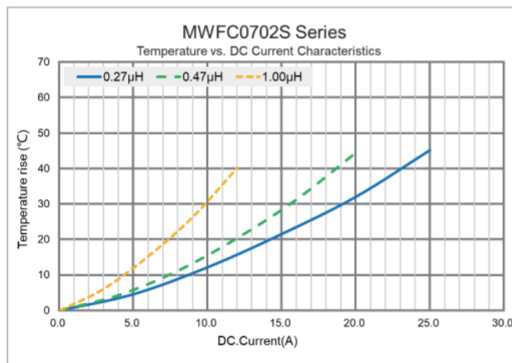
MWFC0605S Series



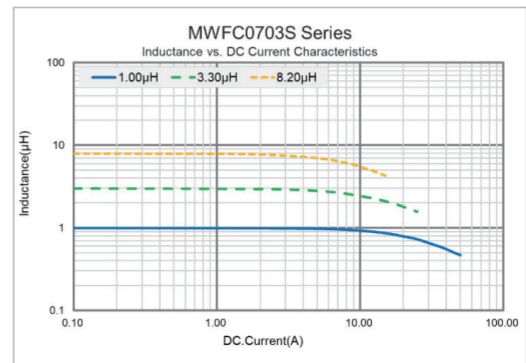
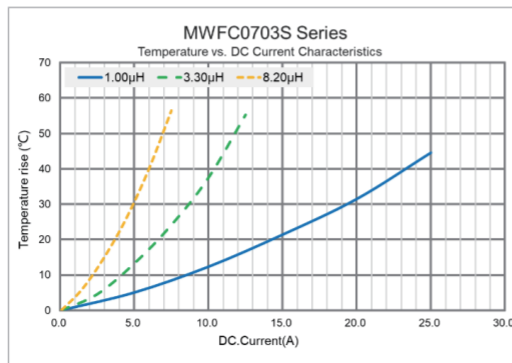
MWFC0606S Series



MWFC0702S Series

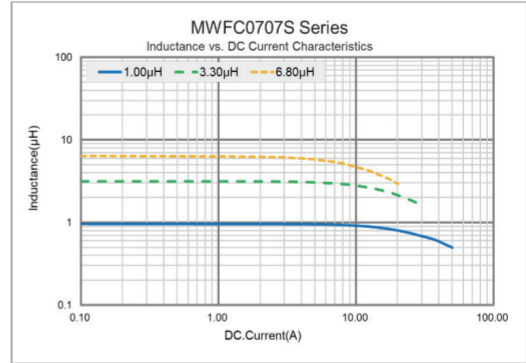
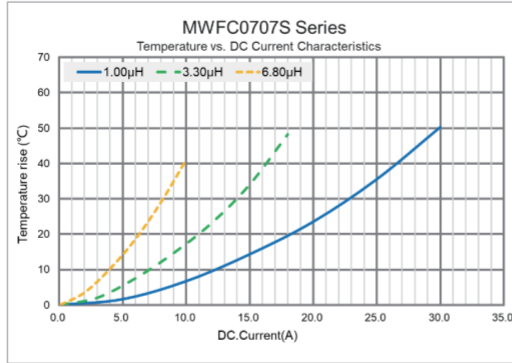


MWFC0703S Series

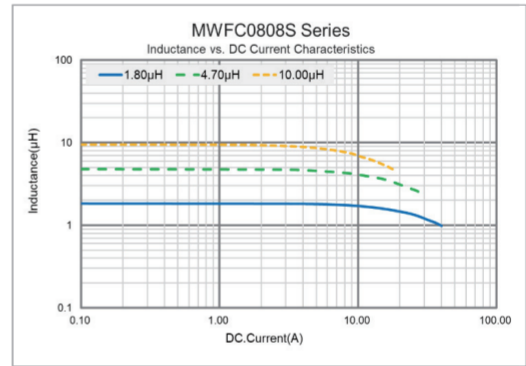
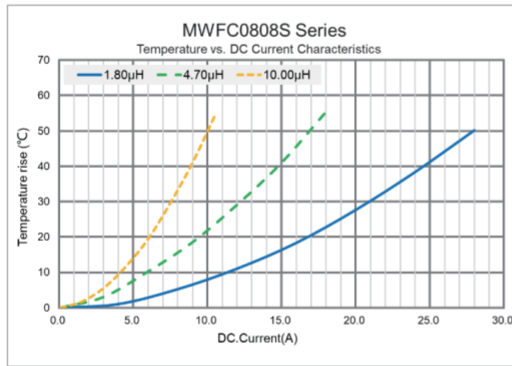


Typical
Electrical
Characteristics

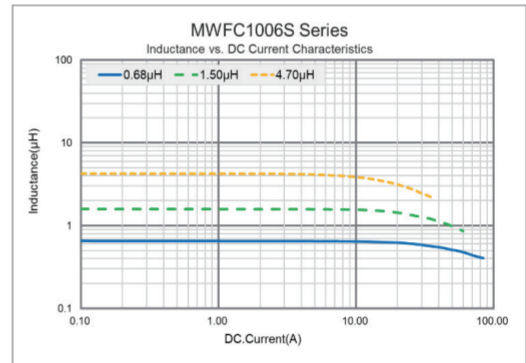
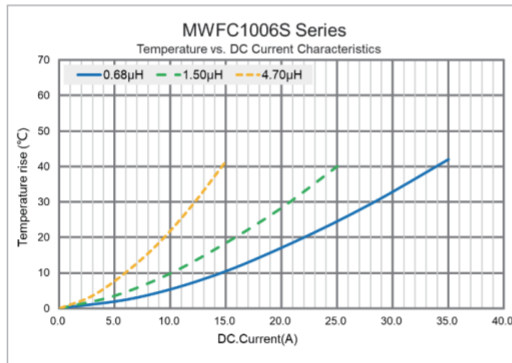
MWFC0707S Series



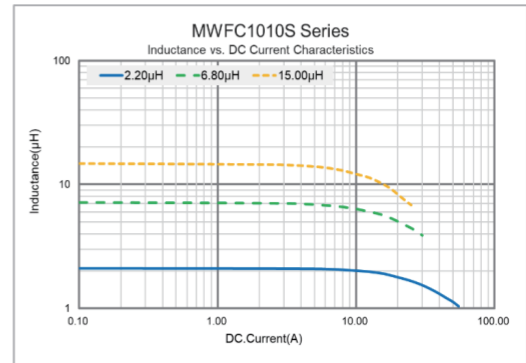
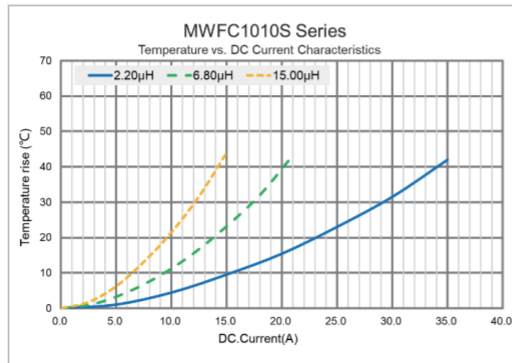
MWFC0808S Series



MWFC1006S Series

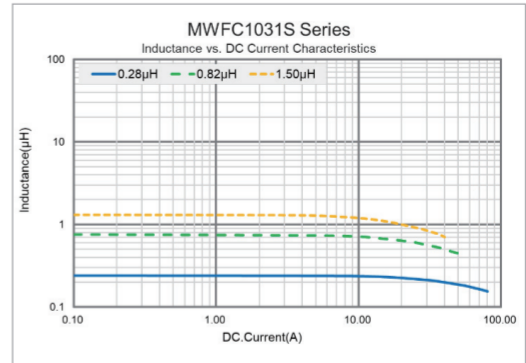
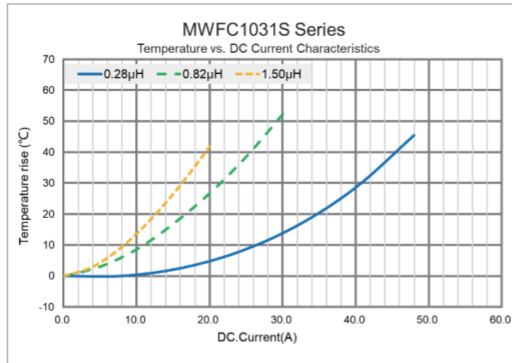


MWFC1010S Series

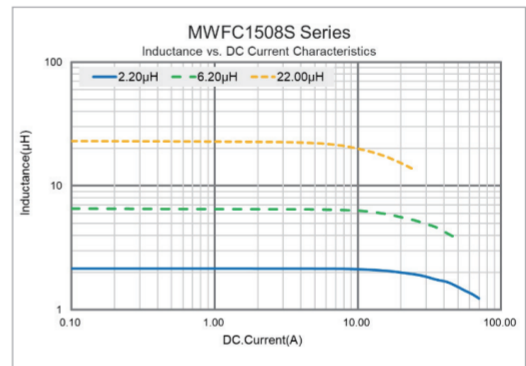
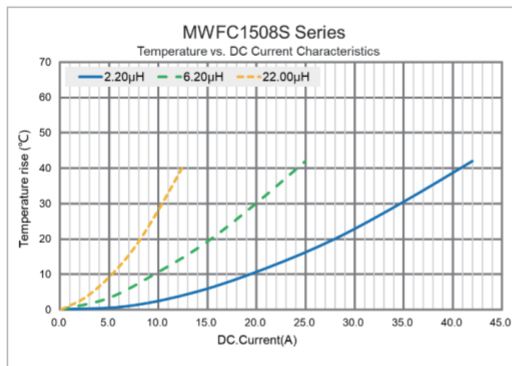


Typical Electrical Characteristics

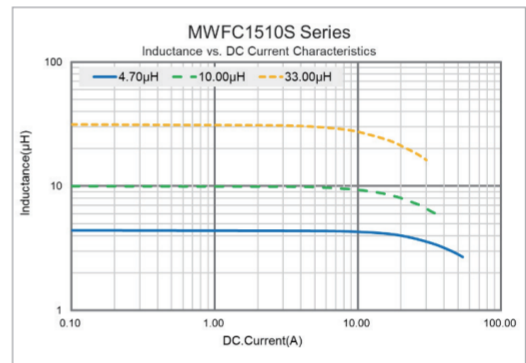
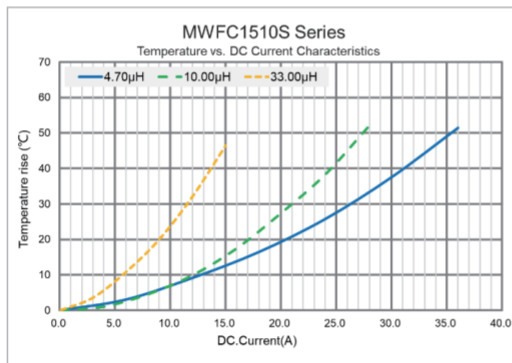
MWFC1031S Series



MWFC1508S Series



MWFC1510S Series



MWFC1513S Series

