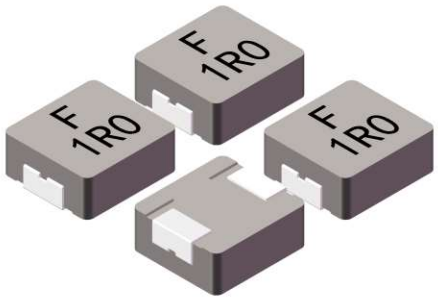
UPIF Series INDEX

UPIFS0603 SERIES

ULTRA HIGH CURRENT SMT PO WER INDUCTOR.



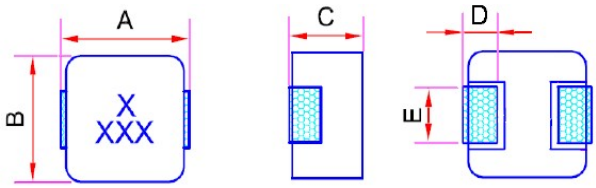
Applications:

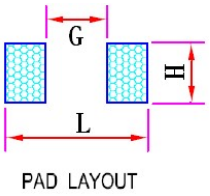
· PDA/Notebook/Desktop, and server applications.

· DC/DC converters in distributed power systems.

· DC/DC converter for Field Programmable Gate Array(FPGA).

Shape and Dimensions(Dimensions are in mm) :





Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIFS0603	7.10±0.2	6.60±0.2	2.8±0.2	1.6±0.3	By each	3.7	3.5	8.0

Features :

· Low profile and low DCR.

· Shielded construction.

· handles high transient current spikes without saturation

· Ultra low buzz noise, due to composite construction.

· Compliance with RoHS and Halogen Free

Product Identification:

UPIF S0603 – 2R2 M

(1) (2) (3) (4)

(1) Product Symbol

(2) Dimensions Code，**S**- small Size.

(3) Inductance: **2R2** for **2.2** uH.

(4) Inductance tolerance: **M**: ± 20%.

Characteristics:

· Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.

· Temperature Rise Current(Irms) : The current causes the coil temperature rised approximately △T=40℃without core Loss.

· Operating Temperature : -55℃ to 125℃.

Measurement equipment:

· L tested by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.

· DCR tested by Milli-ohm meter.

· Electrical specifications at 25℃.

Handling and precautions:

· Please contact us before cleaning this product.

UPIFS0603 Series

Part No.	Inductance L(uH)	DCR（mΩ）		Isat(A) Typ.	Irms(A) Typ.	E mm ±0.5
		Typ.	Max.			
UPIFS0603-1R0M	1.0	7.0	8.0	9.5	12.5	3.0
UPIFS0603-1R5M	1.5	10.2	12.0	8.5	10.5	3.0
UPIFS0603-2R2M	2.2	14.7	16.5	7.0	9.0	3.0
UPIFS0603-3R3M	3.3	23.5	26.0	6.5	7.0	3.0
UPIFS0603-4R7M	4.7	29.5	33.4	4.0	6.0	3.0
UPIFS0603-6R8M	6.8	41.0	46.8	4.0	5.5	3.0
UPIFS0603-8R2M	8.2	52.5	54.9	4.0	5.0	3.0
UPIFS0603-100M	10.0	64.5	71.2	3.5	4.0	3.0
UPIFS0603-150M	15.0	108.0	118.0	4.0	3.0	3.0
UPIFS0603-220M	22.0	126.0	135.0	2.5	2.9	3.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition: 100kHz, 0.25 Vrms.

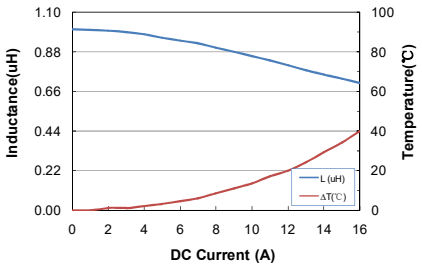
Note 3: Isat (Typ): DC current（A）that will cause L0 to drop approximately 30%

Irms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

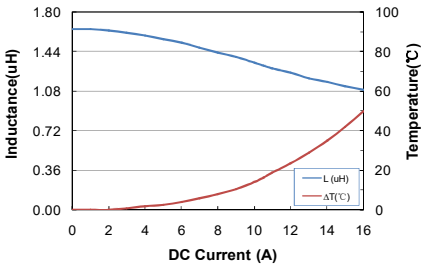
Note 4: Operating Temperature range includes self-temperature rise

Typical performance curves :

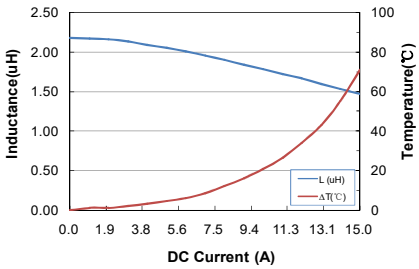
UPIFS0603-1R0M



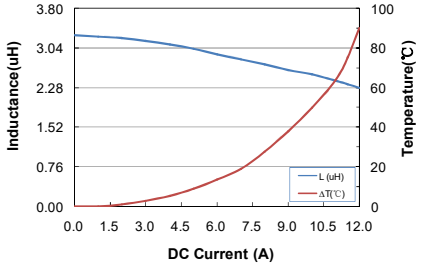
UPIFS0603-1R5M



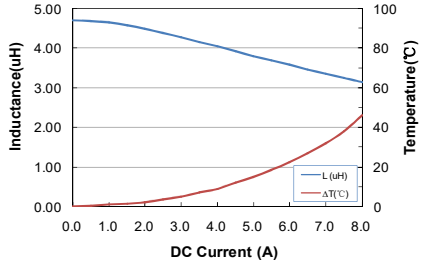
UPIFS0603-2R2M



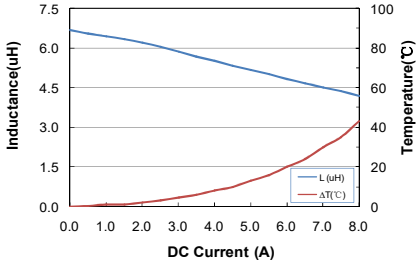
UPIFS0603-3R3M



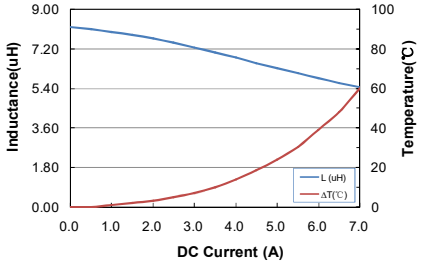
UPIFS0603-4R7M



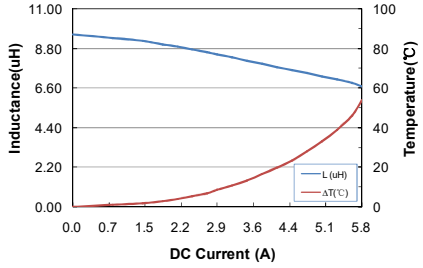
UPIFS0603-6R8M



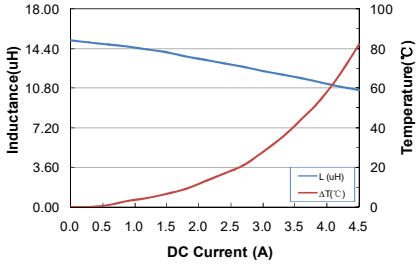
UPIFS0603-8R2M



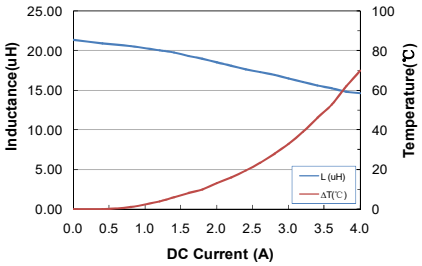
UPIFS0603-100M



UPIFS0603-150M



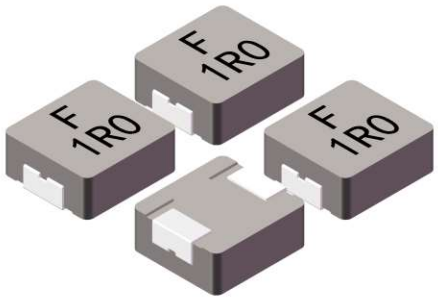
UPIFS0603-220M



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

UPIF0804 SERIES

ULTRA HIGH CURRENT SMT PO WER INDUCTOR.



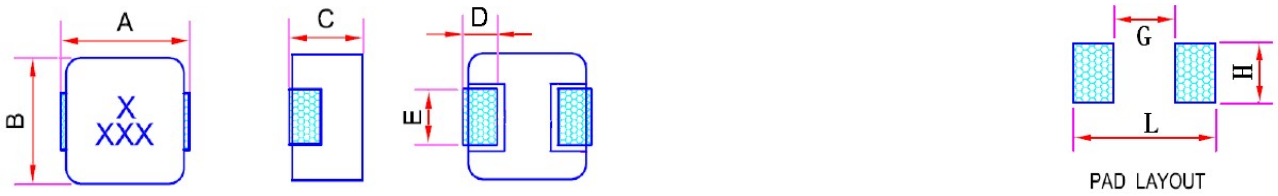
Applications:

· PDA/Notebook/Desktop, and server applications.

· DC/DC converters in distributed power systems.

· DC/DC converter for Field Programmable Gate Array(FPGA).

Shape and Dimensions(Dimensions are in mm) :



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIF0804	8.6±0.3	8.0±0.25	3.8±0.2	1.8±0.3	By each	4.6	3.8	10.6

Features :

· Low profile and low DCR.

· Shielded construction.

· handles high transient current spikes without saturation

· Ultra low buzz noise, due to composite construction.

· Compliance with RoHS and Halogen Free

Product Identification:

UPIF 0804 – 2R2 M

(1) (2) (3) (4)

(1) Product Symbol

(2) Dimensions Code

(3) Inductance: **2R2** for **2.2** uH.

(4) Inductance tolerance: **M**: ± 20%.

Characteristics:

· Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.

· Temperature Rise Current(Irms) : The current causes the coil temperature rised approximately △T=40℃without core Loss.

· Operating Temperature : -55℃ to 125℃.

Measurement equipment:

· L tested by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.

· DCR tested by Milli-ohm meter.

· Electrical specifications at 25℃.

Handling and precautions:

· Please contact us before cleaning this product.

UPIF0804 Series

Part No.	Inductance L(uH)	DCR（mΩ）		Isat(A) Typ.	Irms(A) Typ.	E mm ±0.5
		Typ.	Max.			
UPIF0804-R19M	0.19	1.18	1.35	22.0	34.0	3.0
UPIF0804-R33M	0.33	1.60	2.15	16.0	27.5	3.0
UPIF0804-R47M	0.47	2.22	2.38	14.0	25.0	3.0
UPIF0804-R68M	0.68	2.90	3.22	14.5	22.2	3.0
UPIF0804-R82M	0.82	2.81	3.88	15.0	19.5	3.0
UPIF0804-1R0M	1.0	4.03	4.63	12.0	18.2	3.2
UPIF0804-2R2M	2.2	8.80	9.41	10.2	14.2	3.2
UPIF0804-3R3M	3.3	12.45	14.9	9.7	10.5	3.2
UPIF0804-4R7M	4.7	19.80	22.6	8.7	8.0	3.2
UPIF0804-5R6M	5.6	24.53	28.6	7.6	7.4	3.2
UPIF0804-6R8M	6.8	28.34	33.4	6.7	7.0	3.2
UPIF0804-8R2M	8.2	39.64	45.0	6.6	5.7	3.2
UPIF0804-100M	10	44.15	51.8	6.4	5.4	3.2
UPIF0804-150M	15	53.50	65.3	3.7	4.9	3.2
UPIF0804-220M	22	70.47	94.2	3.3	4.3	3.2
UPIF0804-330M	33	114.78	144.0	3.2	3.2	3.2

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

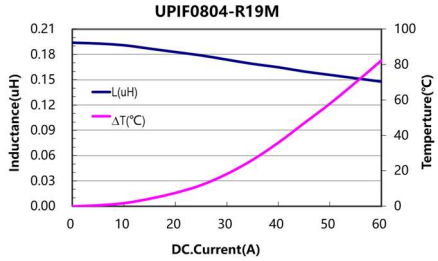
Note 2: Test Condition: 100kHz, 0.25 Vrms.

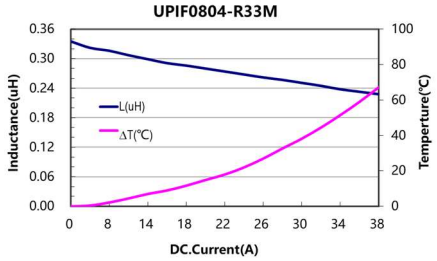
Note 3: Isat (Typ): DC current（A）that will cause L0 to drop approximately 30%

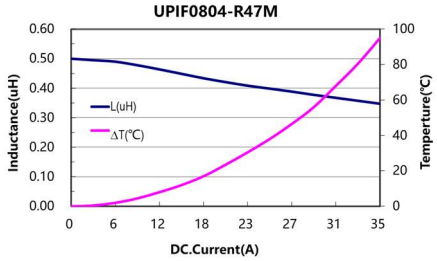
Irms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

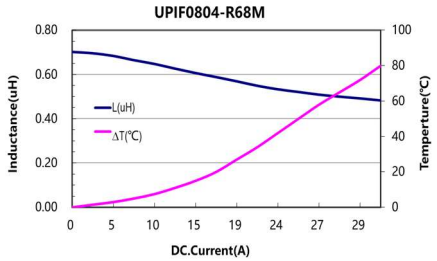
Note 4: Operating Temperature range includes self-temperature rise

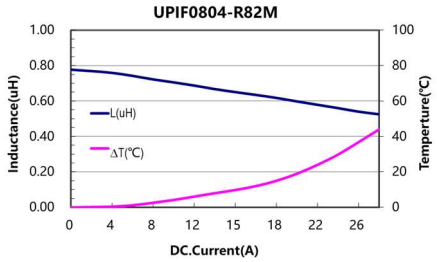
Typical performance curves :

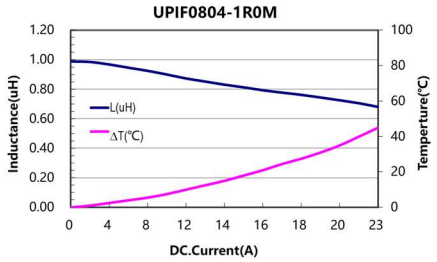


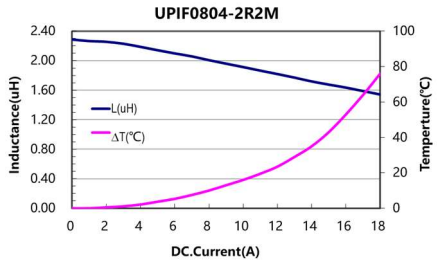


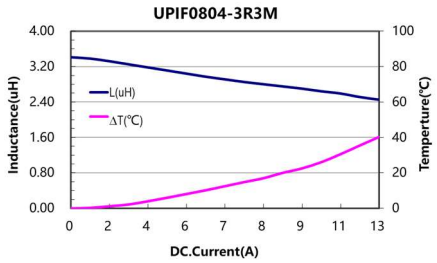


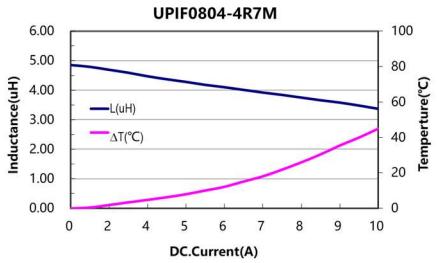


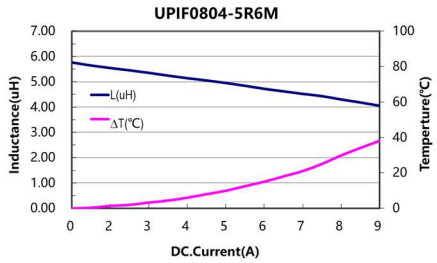


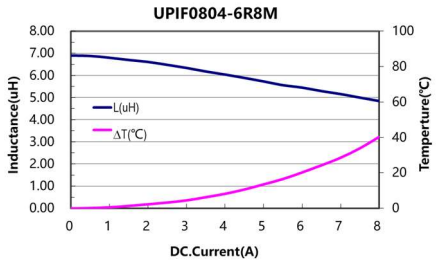


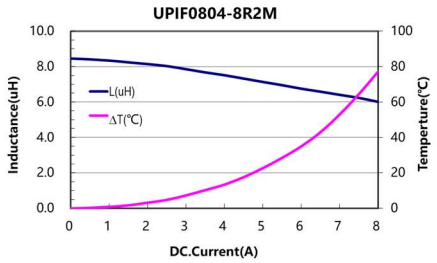


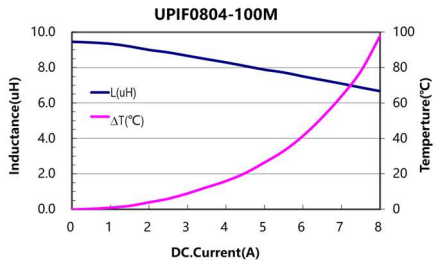


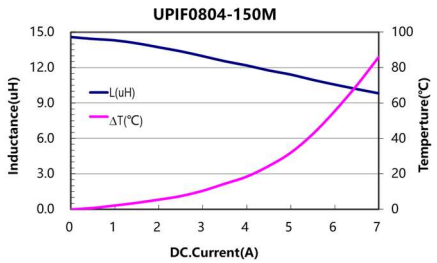


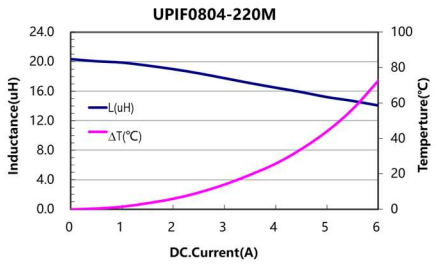


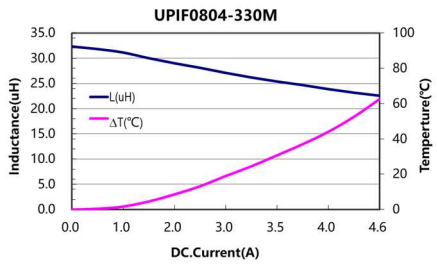










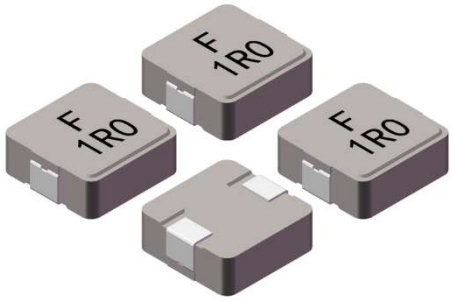


* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

UPIF1004 SERIES

HF Halogen Free RoHS COMPLIANT

ULTRA HIGH CURRENT SMT PO WER INDUCTOR.



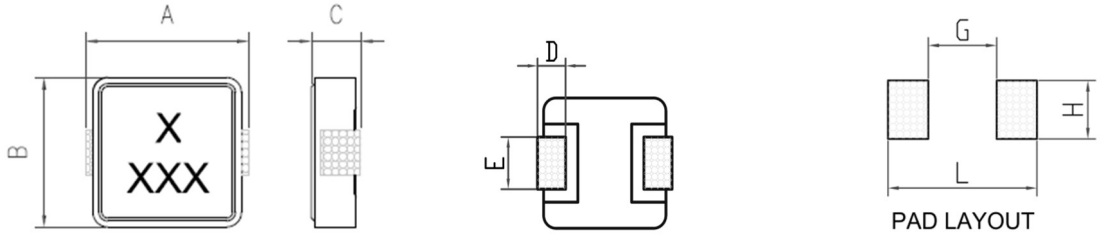
Applications:

· PDA/Notebook/Desktop, and server applications.

· DC/DC converters in distributed power systems.

· DC/DC converter for Field Programmable Gate Array(FPGA).

Shape and Dimensions(Dimensions are in mm) :



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIF1004	11.0±0.5	10.0±0.3	3.8±0.2	2.3±0.3	3.0±0.5	5.4	4.5	12.4

Features :

· Low profile and low DCR.

· Shielded construction.

· handles high transient current spikes without saturation

· Ultra low buzz noise, due to composite construction.

· Compliance with RoHS and Halogen Free

Product Identification:

UPIF 1004 – 2R2 M

(1) (2) (3) (4)

(1) Product Symbol

(2) Dimensions Code

(3) Inductance: **2R2** for **2.2** uH.

(4) Inductance tolerance: **M**: ± 20%.

Characteristics:

· Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.

· Temperature Rise Current(Irms) : The current causes the coil temperature rised approximately △T=40℃without core Loss.

· Operating Temperature : -55℃ to 125℃.

Measurement equipment:

· L tested by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.

· DCR tested by Milli-ohm meter.

· Electrical specifications at 25℃.

Handling and precautions:

· Please contact us before cleaning this product.

UPIF1004 Series

Part No.	Inductance L(uH)	DCR（mΩ）		Isat(A) Typ.	Irms(A) Typ.	E mm ±0.5
		Typ.	Max.			
UPIF1004-R19M	0.19	0.6	0.80	46.0	40.0	3.0
UPIF1004-R22M	0.22	0.8	0.95	44.0	33.0	3.0
UPIF1004-R27M	0.27	0.8	0.95	44.0	33.0	3.0
UPIF1004-R36M	0.36	1.0	1.20	30.0	32.0	3.0
UPIF1004-R47M	0.47	1.4	1.68	30.0	30.0	3.0
UPIF1004-R56M	0.56	1.7	1.8	22.0	32.0	3.0
UPIF1004-R68M	0.68	2.2	2.4	22.0	27.0	3.0
UPIF1004-R82M	0.82	2.4	2.7	22.0	25.0	3.0
UPIF1004-1R0M	1.0	2.5	3.3	20.0	25.0	3.0
UPIF1004-1R5M	1.5	3.5	4.3	16.0	17.0	3.0
UPIF1004-2R2M	2.2	7.8	8.5	12.0	15.0	3.0
UPIF1004-4R7M	4.7	13.8	16.0	7.6	9.5	3.0
UPIF1004-6R8M	6.8	18.7	19.3	7.5	9.0	3.0
UPIF1004-8R2M	8.2	25.5	28.0	7.3	8.0	3.0
UPIF1004-100M	10.0	28.3	30.5	7.1	7.5	3.0
UPIF1004-150M	15.0	38.3	45.0	6.0	6.25	3.0
UPIF1004-220M	22.0	61.3	66.0	4.5	5.0	3.0
UPIF1004-330M	33.0	89.0	94.5	4.0	4.4	3.0
UPIF1004-470M	47.0	129.1	145.0	3.0	3.3	3.0

If you require another part number please contact with us.

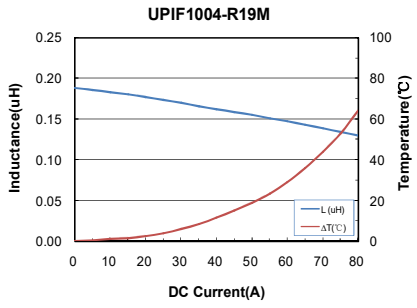
Note 1: Referenced ambient temperature 25℃.

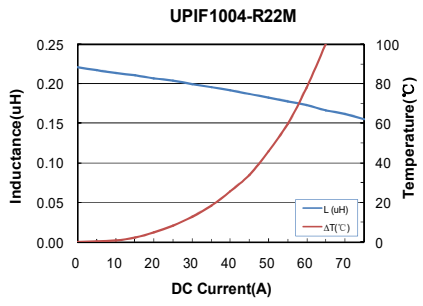
Note 2: Test Condition: 100kHz, 0.25 Vrms.

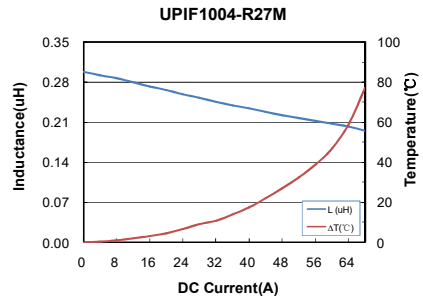
Note 3: Isat (Typ): DC current（A）that will cause L0 to drop approximately 30%
Irms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

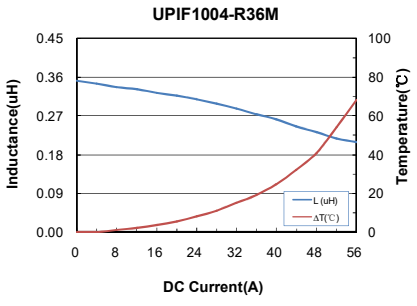
Note 4: Operating Temperature range includes self-temperature rise

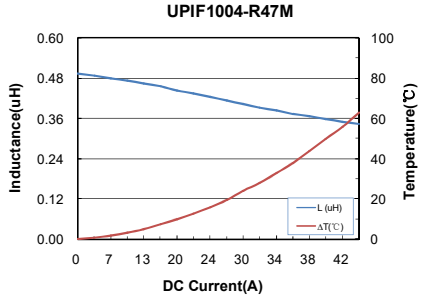
Typical performance curves :

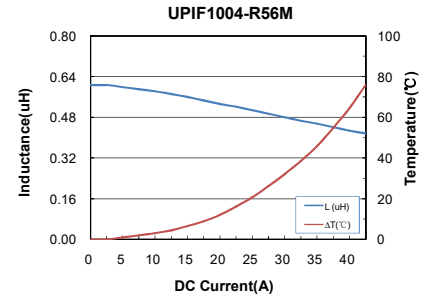




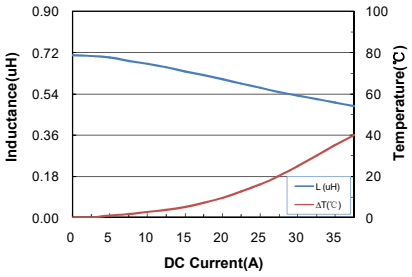




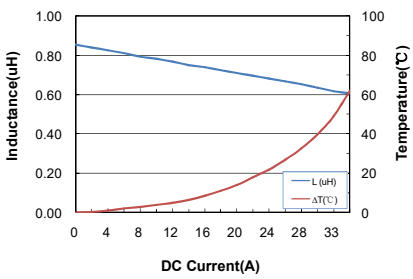




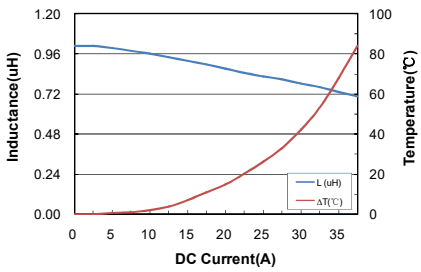
UPIF1004-R68M



UPIF1004-R82M



UPIF1004-1R0M



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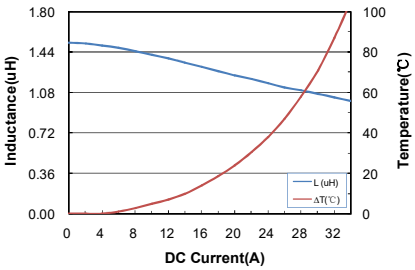

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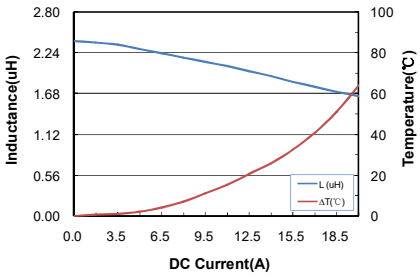
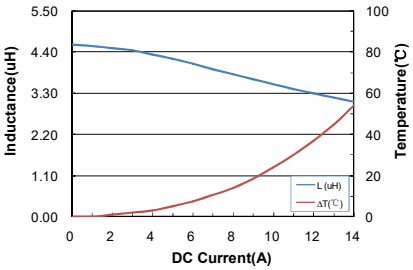


UPIF1004-4R7M



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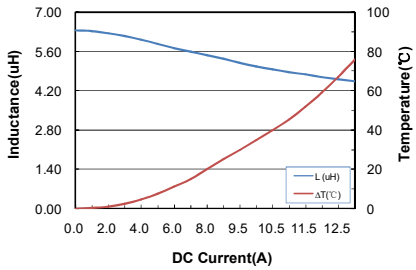

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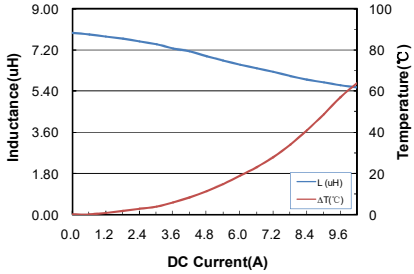
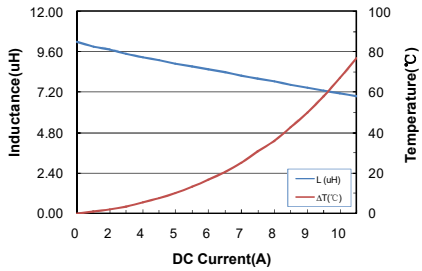
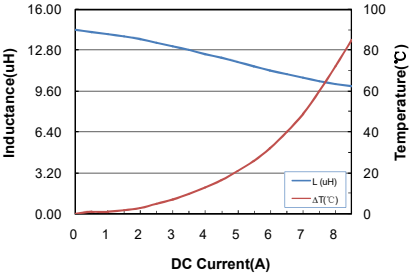


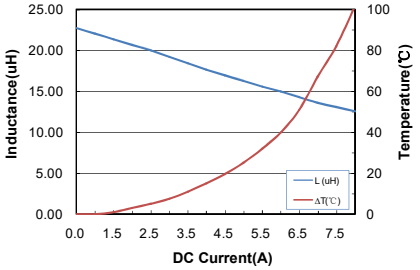
UPIF1004-100M



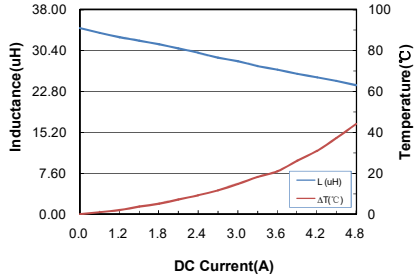
UPIF1004-150M



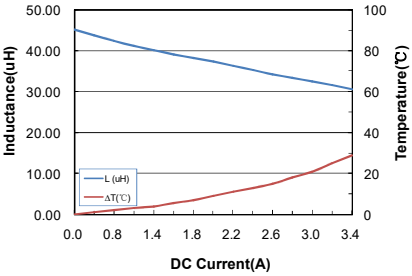
UPIF1004-220M



UPIF1004-330M



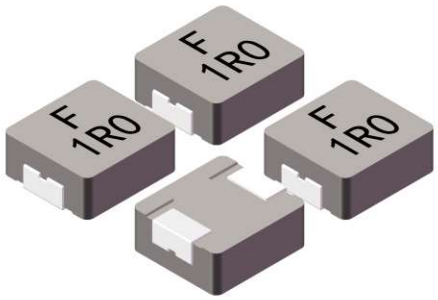
UPIF1004-470M



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

UPIF12 SERIES

ULTRA HIGH CURRENT SMT PO WER INDUCTOR.



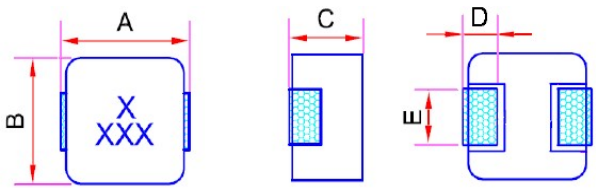
Applications:

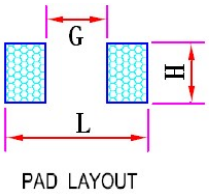
· PDA/Notebook/Desktop, and server applications.

· DC/DC converters in distributed power systems.

· DC/DC converter for Field Programmable Gate Array(FPGA).

Shape and Dimensions(Dimensions are in mm) :





Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIF1205	13.4±0.5	12.6±0.3	4.8±0.2	2.3±0.3	3.0±0.5	8.0	5.0	14.5
UPIF1265	13.4±0.5	12.6±0.3	6.3±0.2	2.3±0.3	3.0±0.5	8.0	5.0	14.5

Features :

· Low profile and low DCR.

· Shielded construction.

· handles high transient current spikes without saturation

· Ultra low buzz noise, due to composite construction.

· Compliance with RoHS and Halogen Free

Product Identification:

UPIF 1205 – 2R2 M

(1) (2) (3) (4)

(1) Product Symbol

(2) Dimensions Code

(3) Inductance: **2R2** for **2.2** uH.

(4) Inductance tolerance: **M**: ± 20%.

Characteristics:

· Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.

· Temperature Rise Current(Irms) : The current causes the coil temperature rised approximately △T=40℃without core Loss.

· Operating Temperature : -55℃ to 125℃.

Measurement equipment:

· L tested by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.

· DCR tested by Milli-ohm meter.

· Electrical specifications at 25℃.

Handling and precautions:

· Please contact us before cleaning this product.

UPIF1205 Series

Part No.	Inductance L(uH)	DCR（mΩ）		Isat(A) Typ.	Irms(A) Typ.	E mm ±0.5
		Typ.	Max.			
UPIF1205-R68M	0.68	1.52	1.70	35.0	34.0	3.0
UPIF1205-1R5M	1.5	2.68	3.50	30.0	25.0	3.0
UPIF1205-3R3M	3.3	8.37	9.20	22.0	15.0	3.0
UPIF1205-6R8M	6.8	14.29	18.5	14.0	11.0	3.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

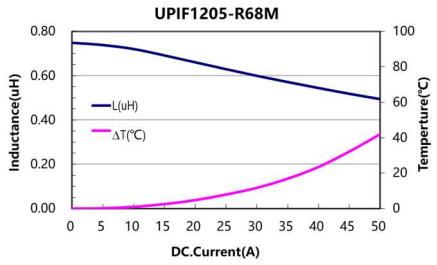
Note 2: Test Condition: 100kHz, 0.25 Vrms.

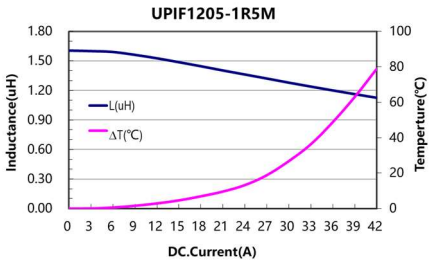
Note 3: Isat (Typ): DC current（A）that will cause L0 to drop approximately 30%

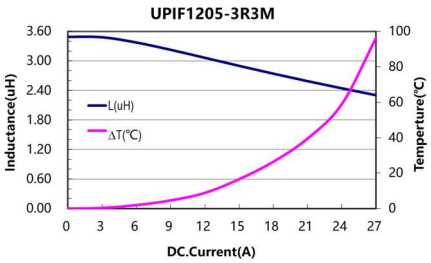
Irms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

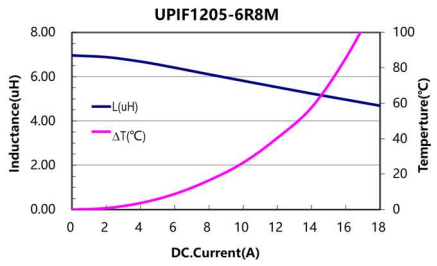
Note 4: Operating Temperature range includes self-temperature rise

Typical performance curves :









● UPIF1265 Series

Part No.	Inductance L(uH)	DCR（mΩ）		Isat(A) Typ.	Irms(A) Typ.	E mm ±0.5
		Typ.	Max.			
UPIF1265-3R3M	3.3	4.46	5.5	22.0	20.0	3.0
UPIF1265-4R7M	4.7	6.06	7.5	21.0	18.0	3.0
UPIF1265-5R6M	5.6	6.92	9.0	18.0	16.0	3.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

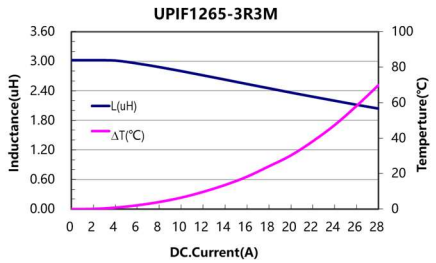
Note 2: Test Condition: 100kHz, 0.25 Vrms.

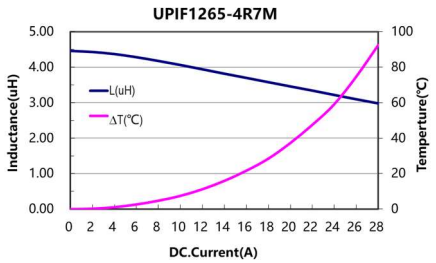
Note 3: Isat (Typ): DC current（A）that will cause L0 to drop approximately 30%

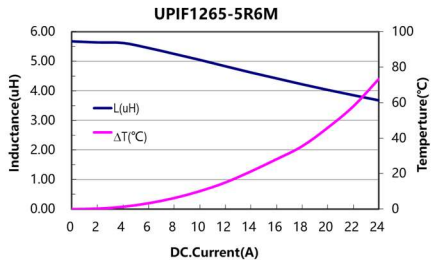
Irms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

Note 4: Operating Temperature range includes self-temperature rise

Typical performance curves :



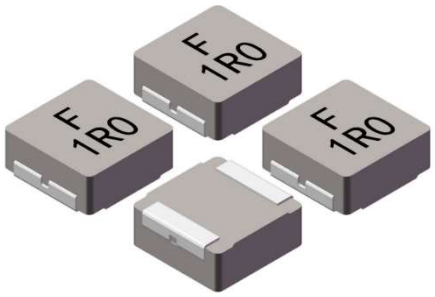




* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

UPIF17 SERIES

ULTRA HIGH CURRENT SMT PO WER INDUCTOR.



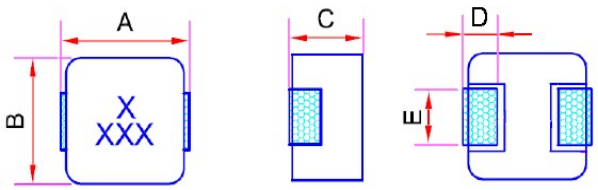
Applications:

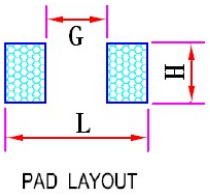
· PDA/Notebook/Desktop, and server applications.

· DC/DC converters in distributed power systems.

· DC/DC converter for Field Programmable Gate Array(FPGA).

Shape and Dimensions(Dimensions are in mm) :





Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIF1704	17.3±0.5	17.0±0.3	3.8±0.2	2.1±0.3	12.0±0.3	11.7	12.2	18.0
UPIF1707	17.3±0.5	17.0±0.3	6.7±0.3	2.1±0.3	12.0±0.3	11.7	12.2	18.0

Features :

· Low profile and low DCR.

· Shielded construction.

· handles high transient current spikes without saturation

· Ultra low buzz noise, due to composite construction.

· Compliance with RoHS and Halogen Free

Product Identification:

UPIF 1704 – 4R7 M

(1) (2) (3) (4)

(1) Product Symbol

(2) Dimensions Code

(3) Inductance: **4R7** for **4.7** uH.

(4) Inductance tolerance: **M**: ± 20%.

Characteristics:

· Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.

· Temperature Rise Current(Irms) : The current causes the coil temperature rised approximately △T=40℃without core Loss.

· Operating Temperature : -55℃ to 125℃.

Measurement equipment:

· L tested by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.

· DCR tested by Milli-ohm meter.

· Electrical specifications at 25℃.

Handling and precautions:

· Please contact us before cleaning this product.

● UPIF1704 Series

Part No.	Inductance L(uH)	DCR（mΩ）		Isat(A) Typ.	Irms(A) Typ.	E mm ±0.3
		Typ.	Max.			
UPIF1704-4R7M	4.7	8.60	9.32	16.0	18.0	12
UPIF1704-5R6M	5.6	11.53	12.20	15.0	15.0	12
UPIF1704-6R8M	6.8	12.98	13.79	13.0	14.5	12
UPIF1704-100M	10	16.90	18.92	11.0	12.0	12
UPIF1704-330M	33	65.60	70.84	8.0	6.5	12
UPIF1704-470M	47	89.50	108.5	5.0	5.0	12

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

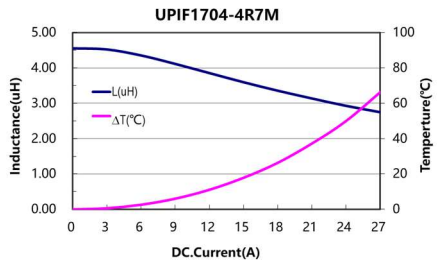
Note 2: Test Condition: 100kHz, 0.25 Vrms.

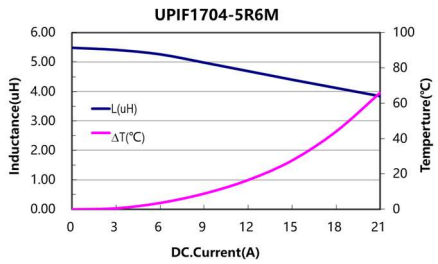
Note 3: Isat (Typ): DC current（A）that will cause L0 to drop approximately 30%

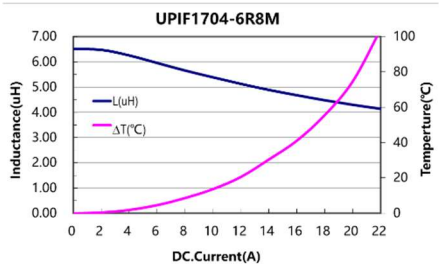
Irms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

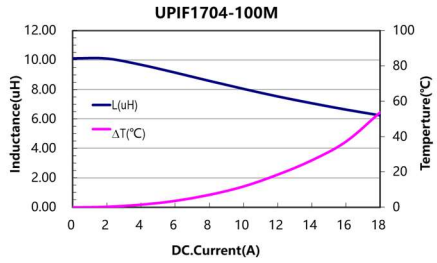
Note 4: Operating Temperature range includes self-temperature rise

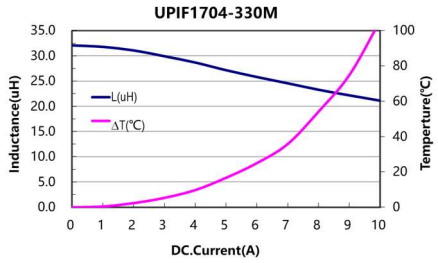
Typical performance curves :

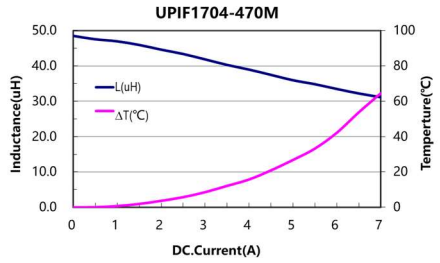












● UPIF1707 Series

Part No.	Inductance L(uH)	DCR（mΩ）		Isat(A) Typ.	Irms(A) Typ.	E mm ±0.3
		Typ.	Max.			
UPIF1707-2R2M	2.2	1.78	1.98	31.0	43.5	12
UPIF1707-3R3M	3.3	2.65	2.93	27.0	35.0	12
UPIF1707-4R7M	4.7	4.00	4.18	23.0	30.0	12
UPIF1707-6R8M	6.8	5.56	6.15	21.0	22.5	12
UPIF1707-100M	10	7.88	9.33	17.0	19.0	12
UPIF1707-150M	15	13.8	14.4	14.0	14.0	12
UPIF1707-220M	22	19.9	21.0	11.5	12.0	12
UPIF1707-330M	33	31.0	37.0	9.0	10.7	12
UPIF1707-470M	47	36.0	42.7	8.6	8.7	12
UPIF1707-680M	68	70.22	75.7	7.0	6.1	12
UPIF1707-820M	82	78.04	91.7	6.2	5.5	12

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

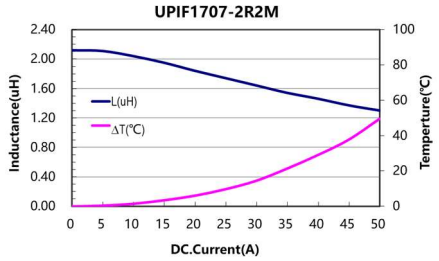
Note 2: Test Condition: 100kHz, 0.25 Vrms.

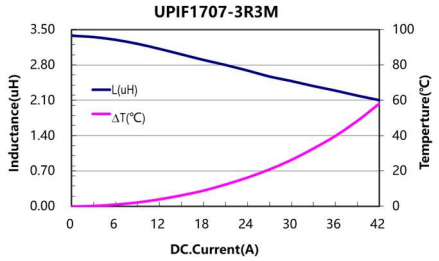
Note 3: Isat (Typ): DC current（A）that will cause L0 to drop approximately 30%

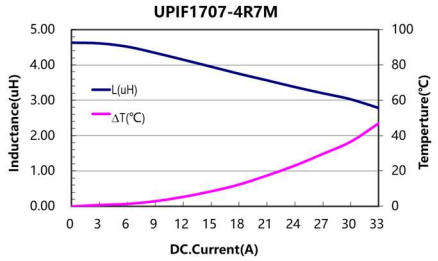
Irms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

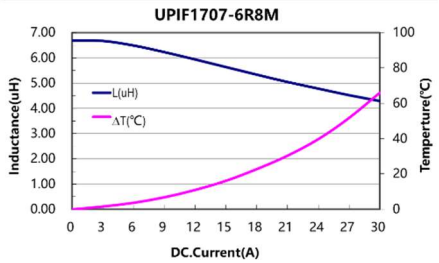
Note 4: Operating Temperature range includes self-temperature rise

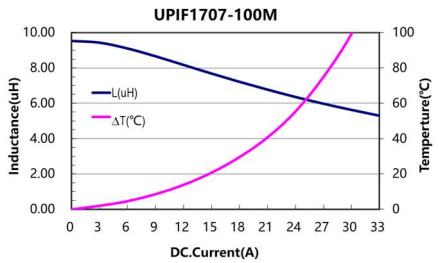
Typical performance curves :

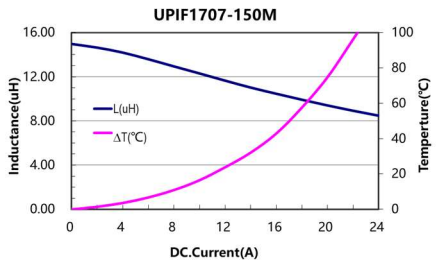


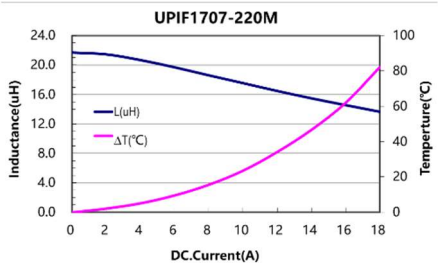


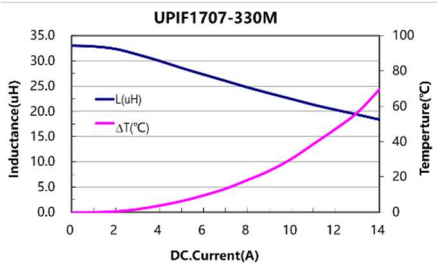


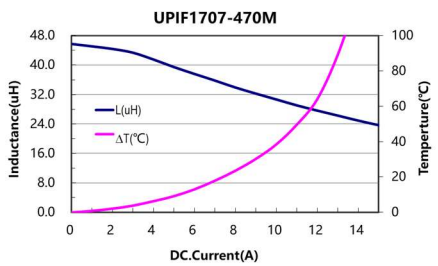


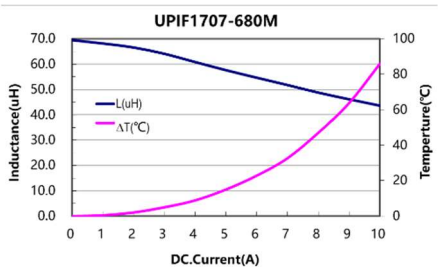


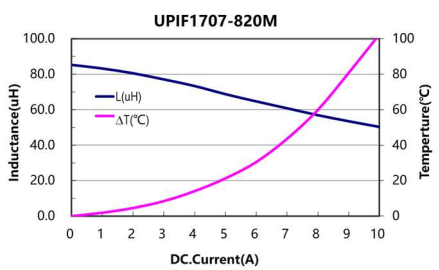








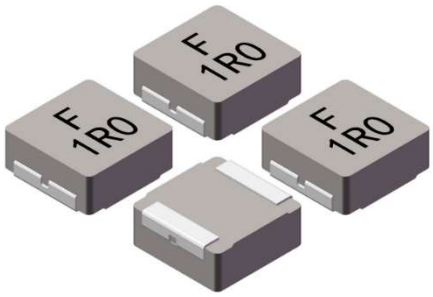




* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

UPIF2213 SERIES

ULTRA HIGH CURRENT SMT PO WER INDUCTOR.



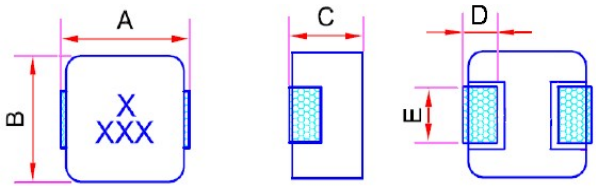
Applications:

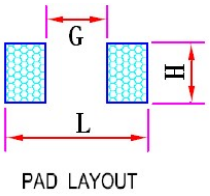
· PDA/Notebook/Desktop, and server applications.

· DC/DC converters in distributed power systems.

· DC/DC converter for Field Programmable Gate Array(FPGA).

Shape and Dimensions(Dimensions are in mm) :





Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIF2213	23.0±0.5	22.0±0.5	12.5±0.5	5.0±0.4	18.5±0.3	12.2	19.6	23.8

Features :

· Low profile and low DCR.

· Shielded construction.

· handles high transient current spikes without saturation

· Ultra low buzz noise, due to composite construction.

· Compliance with RoHS and Halogen Free

Product Identification:

UPIF 2213 – 6R8 M

(1) (2) (3) (4)

(1) Product Symbol

(2) Dimensions Code

(3) Inductance: **6R8** for **6.8** uH.

(4) Inductance tolerance: **M**: ± 20%.

Characteristics:

· Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.

· Temperature Rise Current(Irms) : The current causes the coil temperature rised approximately △T=40℃without core Loss.

· Operating Temperature : -55℃ to 125℃.

Measurement equipment:

· L tested by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.

· DCR tested by Milli-ohm meter.

· Electrical specifications at 25℃.

Handling and precautions:

· Please contact us before cleaning this product.

● UPIF2213 Series

Part No.	Inductance L(uH)	DCR（mΩ）		Isat(A) Typ.	Irms(A) Typ.	E mm ±0.3
		Typ.	Max.			
UPIF2213-5R6M	5.6	2.06	2.30	38	40.0	18.5
UPIF2213-6R8M	6.8	2.52	3.09	36	36.0	18.5
UPIF2213-100M	10	3.57	4.14	28	28.0	18.5
UPIF2213-150M	15	4.89	6.11	24	23.5	18.5
UPIF2213-220M	22	8.50	10.8	22	20.0	18.5
UPIF2213-330M	33	13.50	15.4	17	16.0	18.5
UPIF2213-470M	47	15.90	21.0	15	15.0	18.5
UPIF2213-820M	82	30.57	34.2	12	10.2	18.5
UPIF2213-101M	100	37.80	40.0	10	9.5	18.5

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

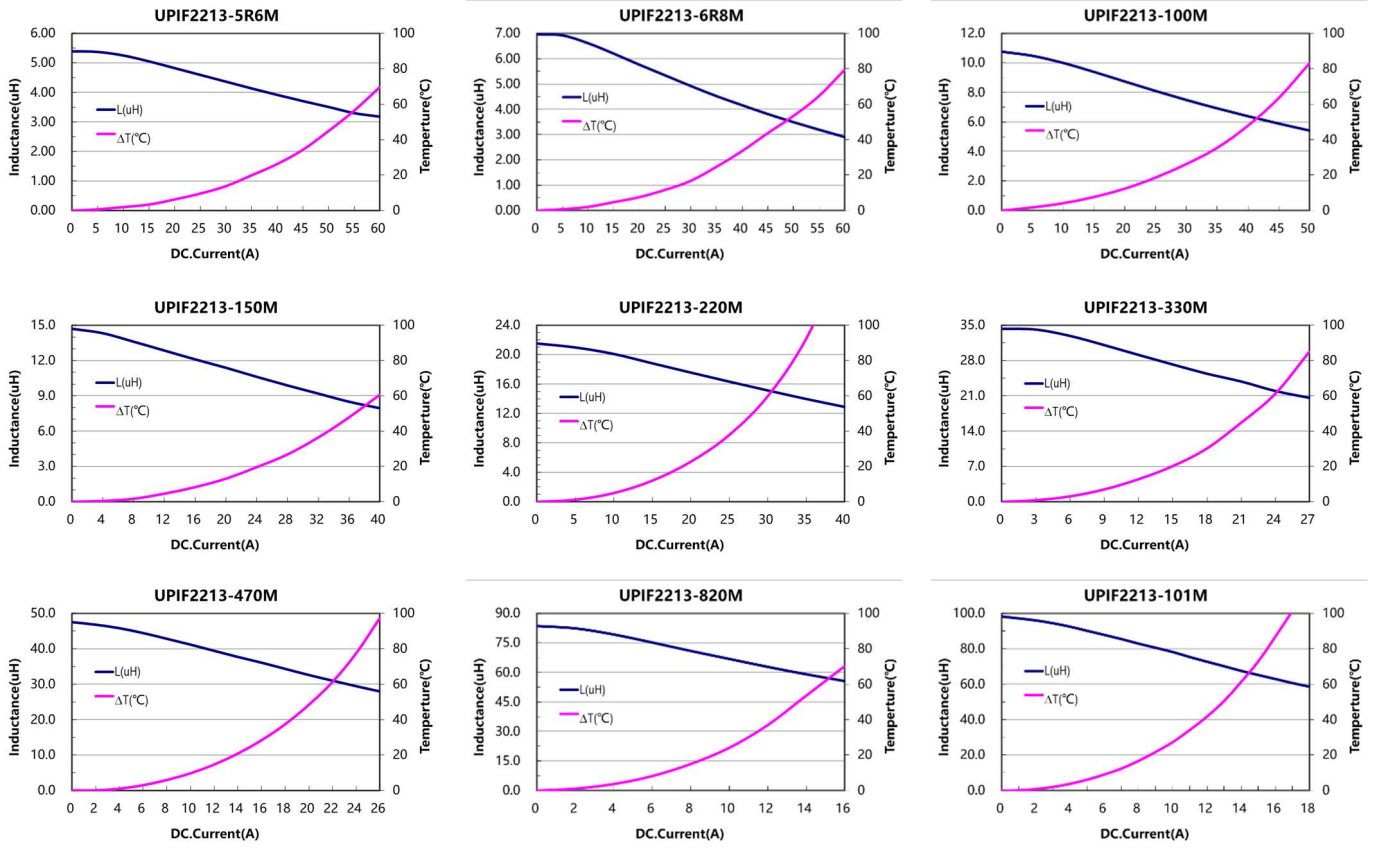
Note 2: Test Condition: 100kHz, 0.25 Vrms.

Note 3: Isat (Typ): DC current（A）that will cause L0 to drop approximately 30%

Irms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

Note 4: Operating Temperature range includes self-temperature rise

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

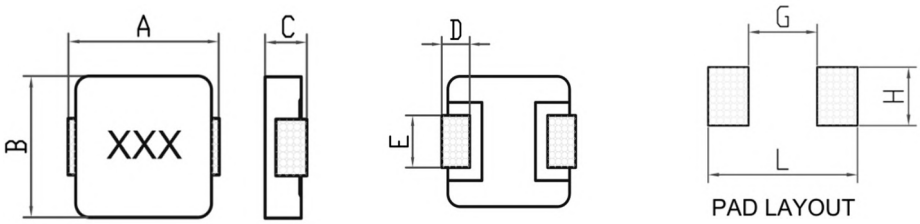
UPIF0503W SERIES

HIGH POWER INDUCTOR

Applications:

- DC/DC converters for entertainment / navigation systems
- Noise suppression for motors
- LED drivers

Shape and Dimensions (Dimensions are in mm)



Item	A	B	C	D	E	G	H	L
UPIF0503W	5.40±0.35	5.20±0.2	2.80±0.2	1.20±0.2	2.20±0.3	2.20	2.50	6.00

Features :

- Lowest height and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction.
- Compliance with RoHS and Halogen Free

Product Identification:

UPIF 0503W – 2R2 M

(1) (2) (3) (4)

(1) Product Symbol

(2) Dimensions Code

(3) Inductance: **2R2** for **2.2** uH.

(4) Inductance tolerance: **M**: ± 20%

Characteristics:

- Saturation Current (Isat) : The current will cause L0 to drop approximately 30% typical
- Temperature Rise(Irms) : The current will cause the coil temperature rise approximately △T=40℃.
- Operating Temperature : -55℃ to 125 ℃

Measurement equipment :

. L : Wayne kerr 3260B LCR meter Wayne kerr 3265B bias current source.

. DCR:Chroma16502 Milliohm Meter

. IWT test: Chroma 19301(A).(Impulse winding test)

Handling and precautions:

- Please contact us before cleaning this product.

UPIF0503W Series

Part No.	Inductance L(uH)	DCR（mΩ） Max.	Isat(A) Typ.	Irms(A) Typ.
UPIF0503W-R10M	0.10	3.0	30	25
UPIF0503W-R20M	0.20	3.9	20	14
UPIF0503W-R33M	0.33	5.5	18	14
UPIF0503W-R47M	0.47	8.5	15	11
UPIF0503W-R68M	0.68	12	11.5	9.0
UPIF0503W-1R0M	1.0	14	10	8.5
UPIF0503W-1R2M	1.2	16	9.5	8.5
UPIF0503W-1R5M	1.5	25	9.0	8.2
UPIF0503W-2R2M	2.2	29	7.0	7.0
UPIF0503W-3R3M	3.3	38	6.0	5.5
UPIF0503W-4R7M	4.7	60	4.6	4.5
UPIF0503W-6R8M	6.8	90	3.6	3.5
UPIF0503W-100M	10	125	3.5	3.2

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

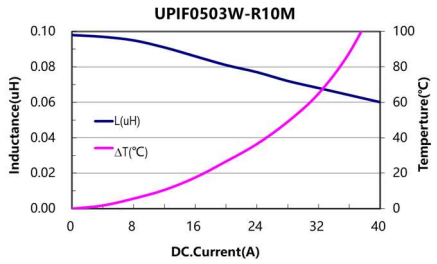
Note 2: Test Condition :100kHz ,0.25 Vrms.

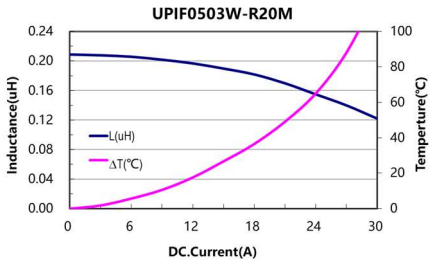
Note 3: Isat (Typ): DC current（A）that will cause L0 to drop approximately 30%

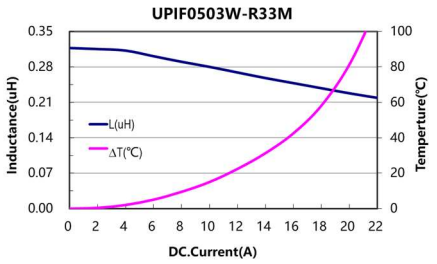
Irms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

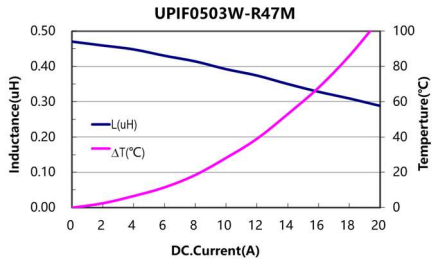
Note 4: Operating temperature range includes self-temperature rise.

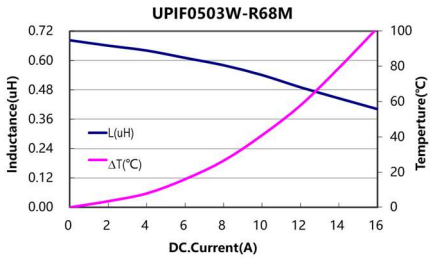
Typical Performance curves:

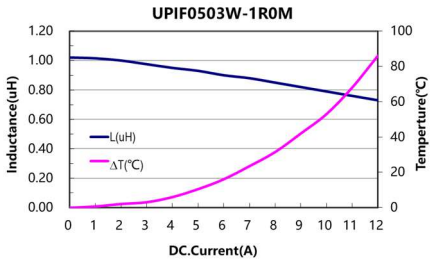


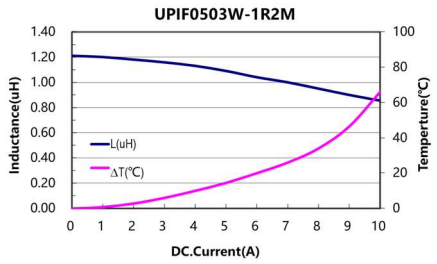


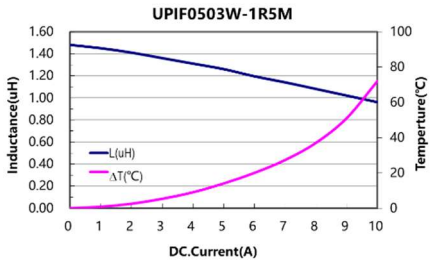


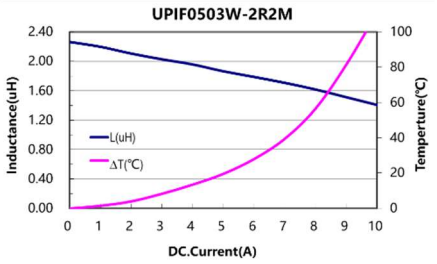


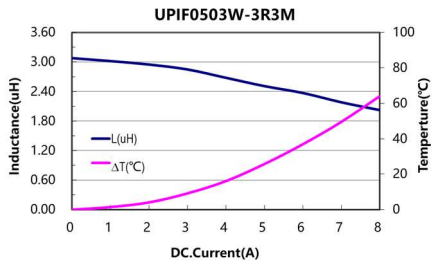


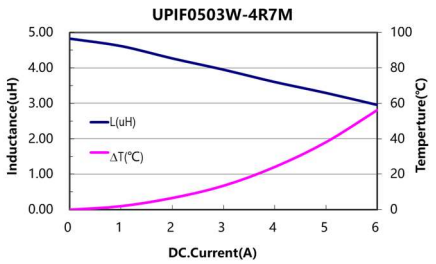


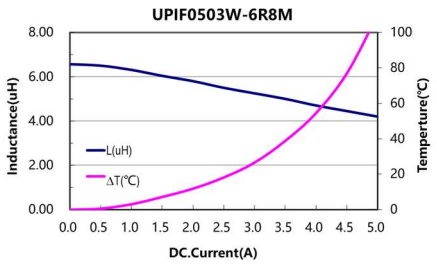


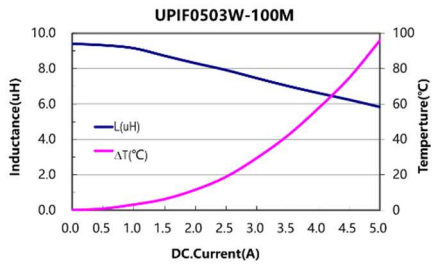












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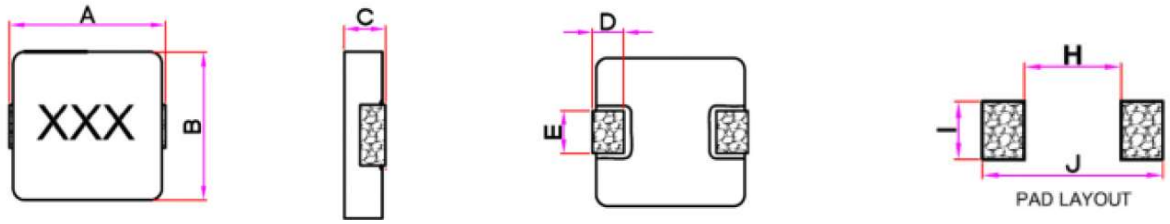
UPIF0603W SERIES

ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications:

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).

Shape and Dimensions(Dimensions are in mm) :



Item	A	B	C	D	E	H	I	J
UPIF0603W	7.0±0.3	6.6±0.2	2.8±0.2	1.6±0.3	3.0±0.3	3.7	3.5	8.4

Features :

- Low profile and low DCR.
- Shielded construction.
- handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction.
- Compliance with RoHS and Halogen Free

Product Identification:

UPIF 0603W – 2R2 M

(1) (2) (3) (4)

(1) Product Symbol

(2) Dimensions Code

(3) Inductance: **2R2** for **2.2** uH.

(4) Inductance tolerance: **M**: ± 20%.

Characteristics:

- Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.
- Temperature Rise Current(Irms) : The current causes the coil temperature rised approximately △T=40℃without core Loss.
- Operating Temperature : -55℃ to 125℃.

Measurement equipment:

- L tested by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25℃.

Handling and precautions:

- Please contact us before cleaning this product.

UPIF0603W Series

Part No.	Inductance L(uH)	DCR（mΩ）		Isat(A) Typ.	Irms(A) Typ.	E mm ±0.5
		Typ.	Max.			
UPIF0603W-R22M	0.22	2.5	3.0	34.0	24.0	3.0
UPIF0603W-R33M	0.33	3.0	3.5	25.0	21.0	3.0
UPIF0603W-R47M	0.47	3.5	4.1	20.0	18.0	3.0
UPIF0603W-R56M	0.56	3.8	4.5	18.0	16.5	3.0
UPIF0603W-R68M	0.68	4.5	5.3	17.0	16.0	3.0
UPIF0603W-R82M	0.82	5.1	6.0	16.0	14.0	3.0
UPIF0603W-1R0M	1.0	6.4	7.4	15.0	12.0	3.0
UPIF0603W-1R5M	1.5	10.1	12.1	12.0	12.0	3.0
UPIF0603W-2R2M	2.2	13.2	15.0	10.0	9.5	3.0
UPIF0603W-3R3M	3.3	19.1	22.0	9.5	8.5	3.0
UPIF0603W-4R7M	4.7	29.4	33.0	9.0	6.0	3.0
UPIF0603W-5R6M	5.6	36.8	42.0	6.5	5.5	3.0
UPIF0603W-6R8M	6.8	44.0	48.0	6.0	5.0	3.0
UPIF0603W-8R2M	8.2	56.0	60.0	5.5	5.0	3.0
UPIF0603W-100M	10	60.0	68.0	5.5	4.5	3.0
UPIF0603W-150M	15	100	113	4.0	3.0	3.0
UPIF0603W-220M	22	138	170	3.0	2.5	3.0
UPIF0603W-330M	33	183	270	2.5	2.0	3.0
UPIF0603W-470M	47	354	385	2.0	1.5	3.0

If you require another part number please contact with us.

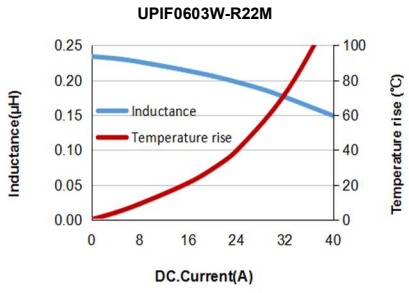
Note 1: Referenced ambient temperature 25℃.

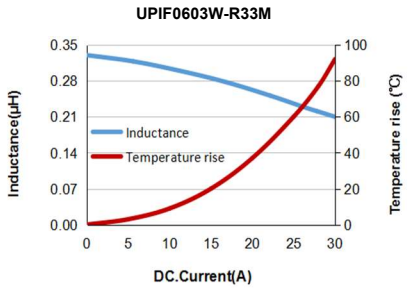
Note 2: Test Condition: 100kHz, 0.25 Vrms.

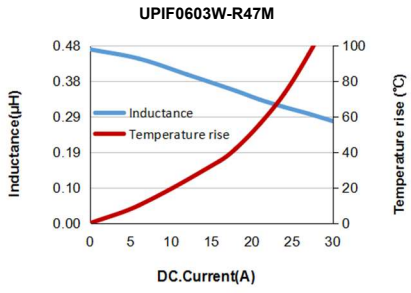
Note 3: Isat (Typ): DC current（A）that will cause L0 to drop approximately 30%
Irms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

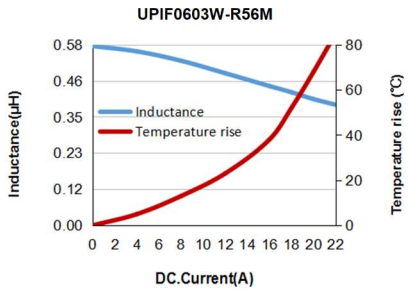
Note 4: Operating Temperature range includes self-temperature rise

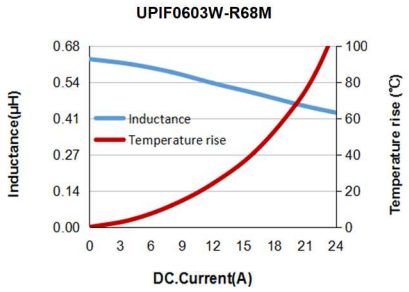
Typical performance curves :

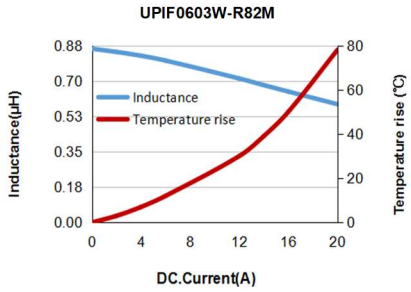




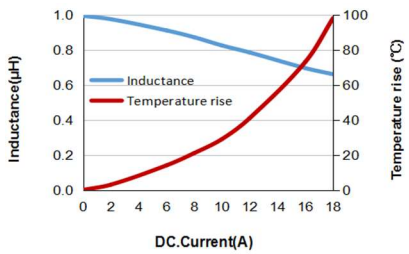




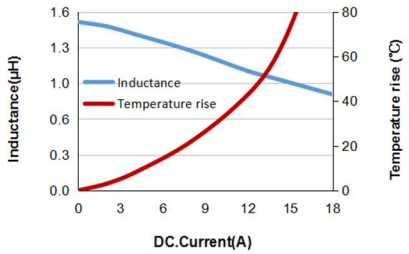




UPIF0603W-1R0M



UPIF0603W-1R5M



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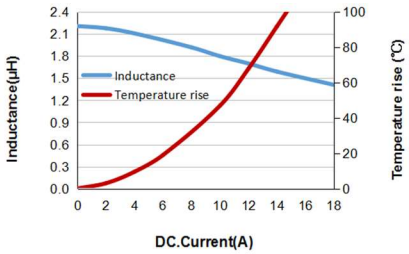
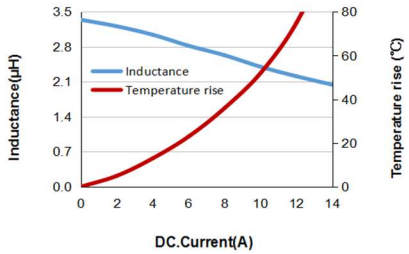
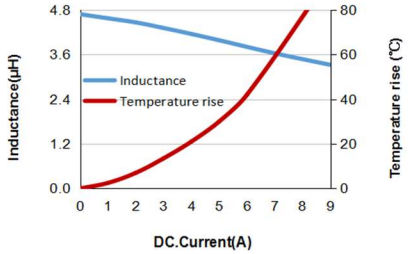


UPIF0603W-3R3M



UPIF0603W-4R7M



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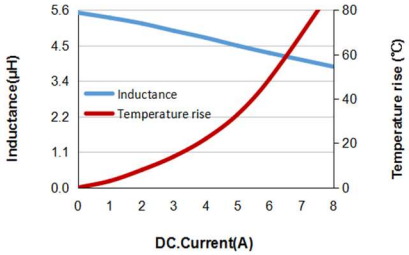
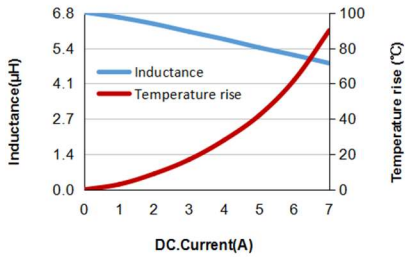


UPIF0603W-6R8M



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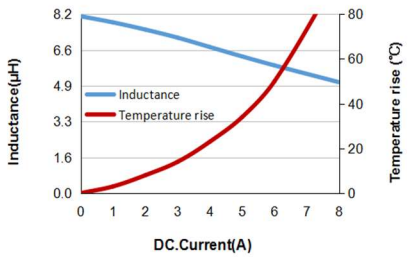

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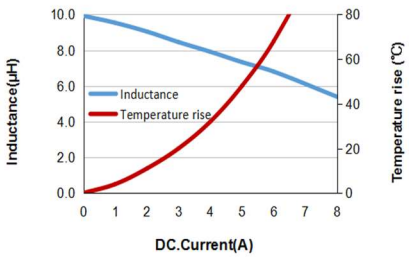

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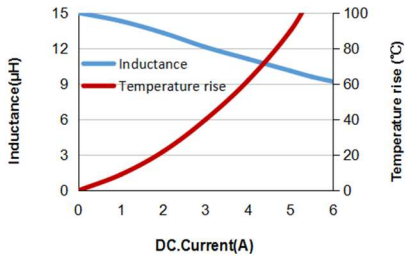

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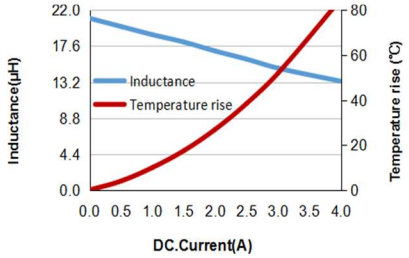

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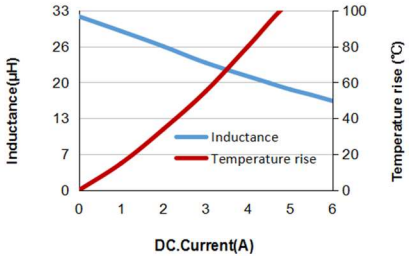

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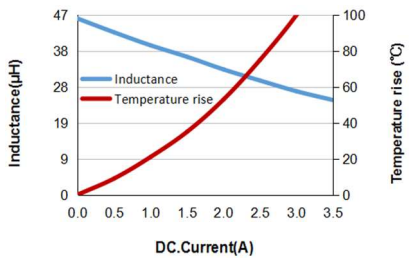


* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

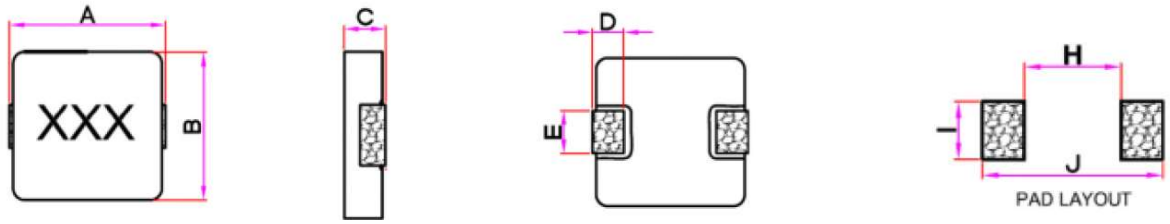
UPIF10W SERIES

ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications:

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).

Shape and Dimensions(Dimensions are in mm) :



Item	A	B	C	D	E	H	I	J
UPIF1004W	11.5MAX	10.0±0.3	3.8±0.2	2.0±0.5	3.0±0.5	5.4	4.1	13.6
UPIF1005W	11.5MAX	10.0±0.3	4.8±0.2	2.0±0.5	3.0±0.5	5.4	4.1	13.6

Features :

- Low profile and low DCR.
- Shielded construction.
- handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction.
- Compliance with RoHS and Halogen Free

Product Identification:

UPIF	**1004W**	–	**2R2**	**M**
(1)	(2)		(3)	(4)

(1) Product Symbol

(2) Dimensions Code

(3) Inductance: **2R2** for **2.2** uH.

(4) Inductance tolerance: **M**: ± 20%.

Characteristics:

- Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.
- Temperature Rise Current(Irms) : The current causes the coil temperature rised approximately △T=40℃without core Loss.
- Operating Temperature : -55℃ to 125℃.

Measurement equipment:

- L tested by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25℃.

Handling and precautions:

- Please contact us before cleaning this product.

UPIF1004W Series

Part No.	Inductance L(uH)	DCR（mΩ）		Isat(A) Typ.	Irms(A) Typ.	E mm ±0.5
		Typ.	Max.			
UPIF1004W-R15M	0.15	0.52	0.65	75.0	45.0	3.0
UPIF1004W-R22M	0.22	0.87	1.0	60.0	35.0	3.0
UPIF1004W-R30M	0.30	0.95	1.1	45.0	35.0	3.0
UPIF1004W-R36M	0.36	1.07	1.2	45.0	30.0	3.0
UPIF1004W-R47M	0.47	1.56	1.7	40.0	30.0	3.0
UPIF1004W-R56M	0.56	1.64	1.8	33.0	25.0	3.0
UPIF1004W-R68M	0.68	2.1	2.4	30.0	23.0	3.0
UPIF1004W-R80M	0.80	2.5	2.7	29.0	23.0	3.0
UPIF1004W-1R0M	1.0	2.9	3.3	28.0	19.0	3.0
UPIF1004W-1R5M	1.5	3.7	4.2	24.0	16.0	3.0
UPIF1004W-2R2M	2.2	5.8	7.0	16.5	12.0	3.0
UPIF1004W-3R3M	3.3	10.0	11.8	16.0	11.0	3.0
UPIF1004W-4R7M	4.7	17.3	20.0	13.0	9.0	3.0
UPIF1004W-6R8M	6.8	22.5	25.0	12.0	8.5	3.0
UPIF1004W-8R2M	8.2	24.7	27.0	9.0	8.0	3.0
UPIF1004W-100M	10	26.8	30.0	8.5	7.8	3.0
UPIF1004W-150M	15	39.0	45.0	7.0	6.5	3.0
UPIF1004W-220M	22	56.7	66.0	5.5	5.0	3.0
UPIF1004W-330M	33	78.0	92.0	4.8	4.4	3.0
UPIF1004W-470M	47	125	145	3.5	3.3	3.0
UPIF1004W-680M	68	167	195	3.0	2.5	3.0
UPIF1004W-101M	100	290	340	2.3	2.0	3.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

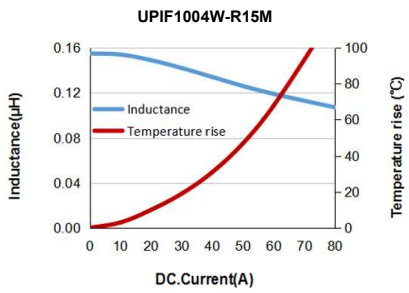
Note 2: Test Condition: 100kHz, 0.25 Vrms.

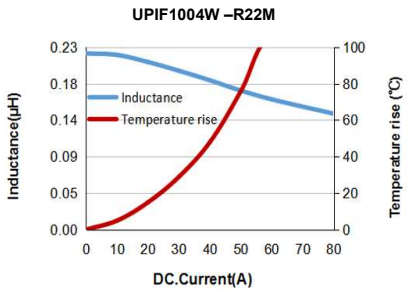
Note 3: Isat (Typ): DC current（A）that will cause L0 to drop approximately 30%

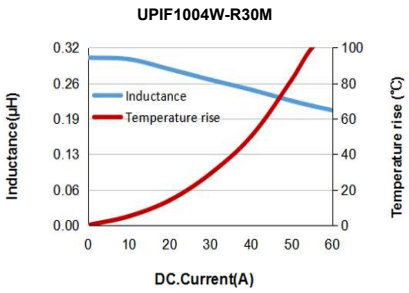
Irms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

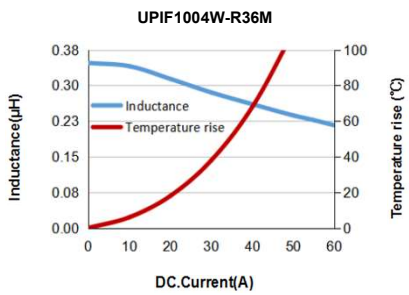
Note 4: Operating Temperature range includes self-temperature rise

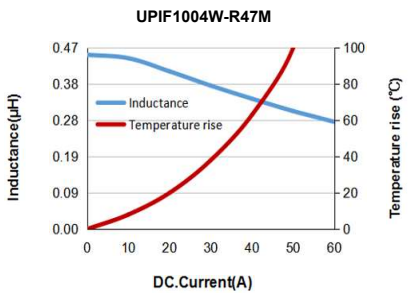
Typical performance curves :

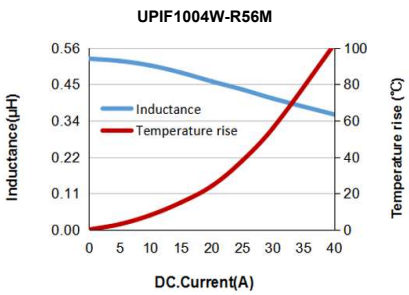




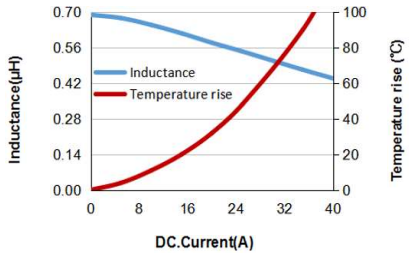








UPIF1004W-R68M



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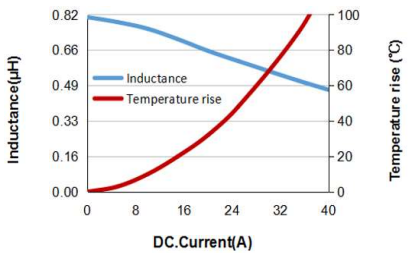

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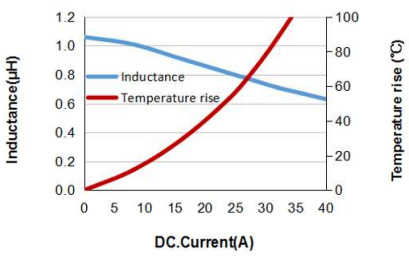

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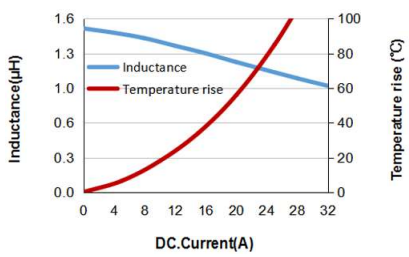

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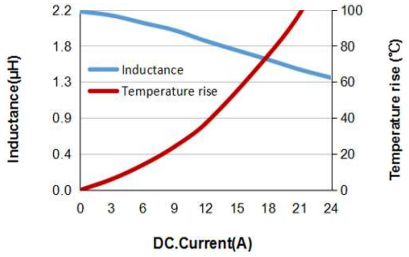

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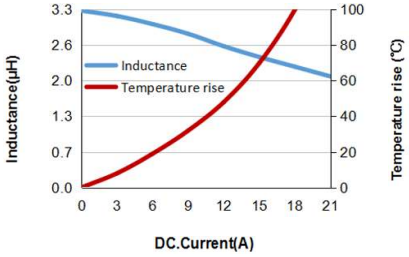

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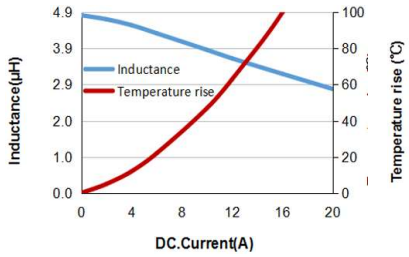

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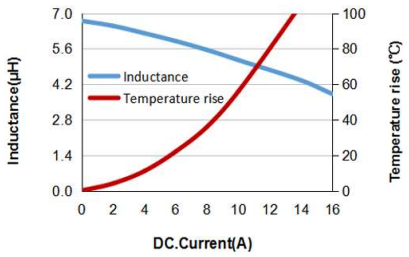

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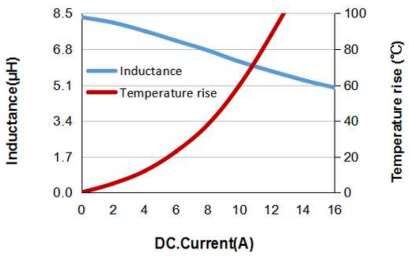

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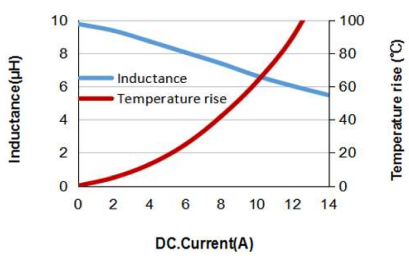

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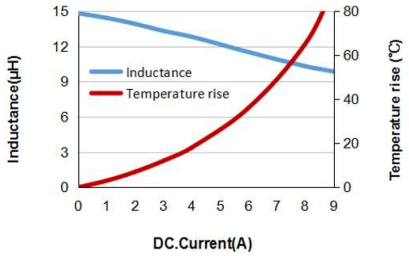

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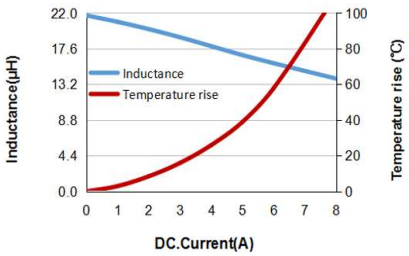

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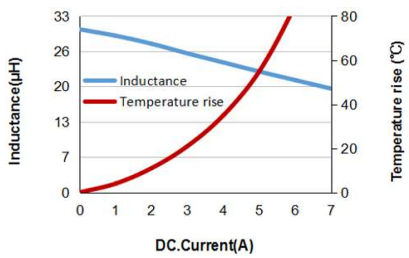

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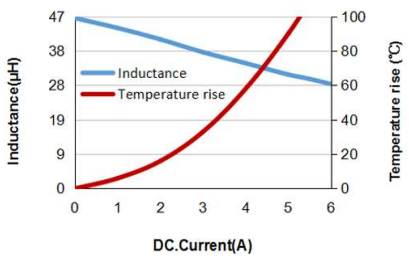

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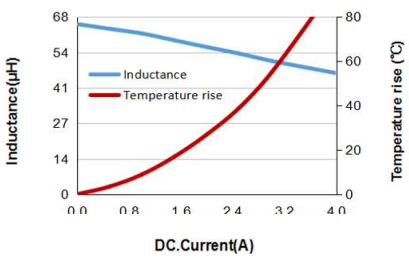

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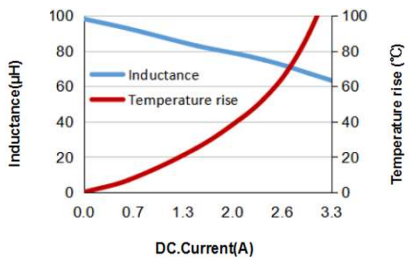


● UPIF1005W Series

Part No.	Inductance L(uH)	DCR（mΩ）		Isat(A) Typ.	Irms(A) Typ.	E mm ±0.5
		Typ.	Max.			
UPIF1005W-R22M	0.22	0.68	0.8	65.0	37.0	3.0
UPIF1005W-1R0M	1.0	2.6	3.0	30.0	23.0	3.0
UPIF1005W-1R5M	1.5	3.2	3.8	25.0	21.0	3.0
UPIF1005W-2R2M	2.2	4.5	6.0	19.0	15.0	3.0
UPIF1005W-3R3M	3.3	8.4	10.0	16.0	13.0	3.0
UPIF1005W-4R7M	4.7	12.5	14.0	15.0	11.0	3.0
UPIF1005W-5R6M	5.6	14.5	17.0	14.0	9.5	3.0
UPIF1005W-6R8M	6.8	16.4	18.5	14.0	9.0	3.0
UPIF1005W-100M	10	23.5	28.0	10.0	8.0	3.0
UPIF1005W-150M	15	34.7	42.0	7.5.0	6.5	3.0
UPIF1005W-220M	22	45.0	50.0	6.0	5.5	3.0
UPIF1005W-330M	33	73.4	86.0	5.2	4.8	3.0
UPIF1005W-470M	47	115.4	127	4.5	3.7	3.0
UPIF1005W-101M	100	267	290	2.8	2.1	3.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

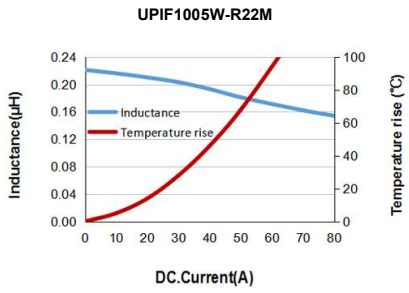
Note 2: Test Condition: 100kHz, 0.25 Vrms.

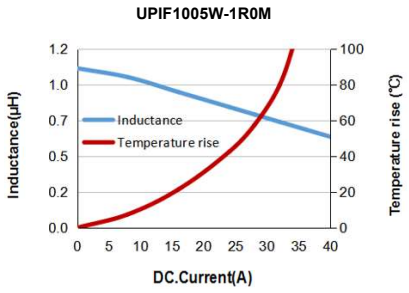
Note 3: Isat (Typ): DC current（A）that will cause L0 to drop approximately 30%

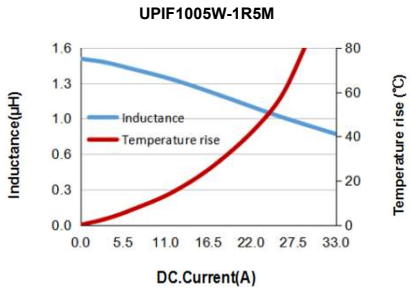
Irms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

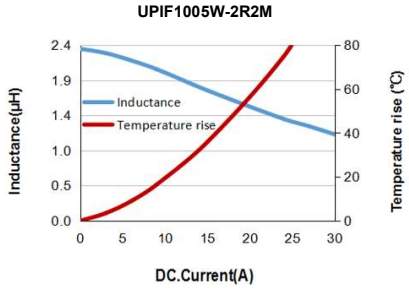
Note 4: Operating Temperature range includes self-temperature rise

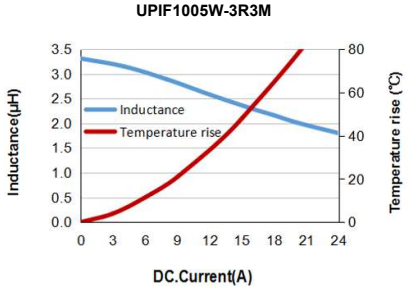
Typical performance curves:

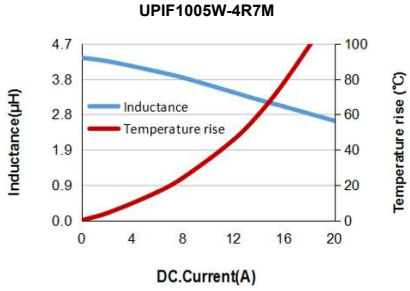




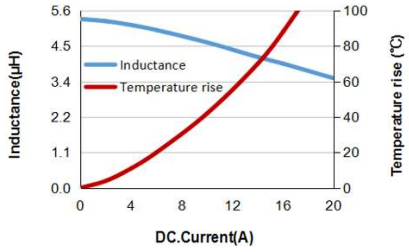








UPIF1005W-5R6M



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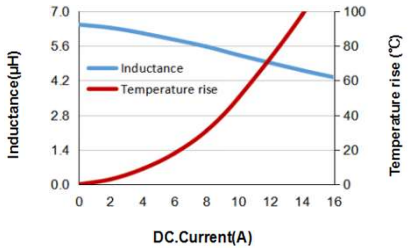
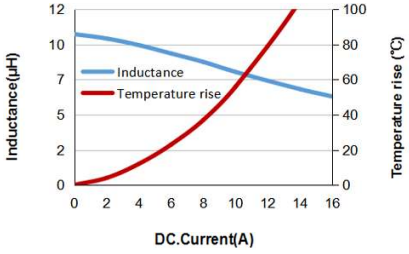


UPIF1005W-100M



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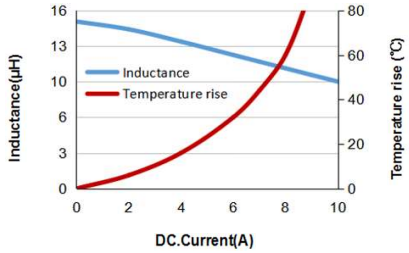

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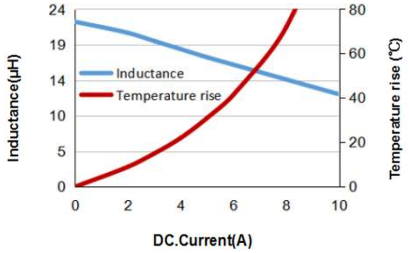

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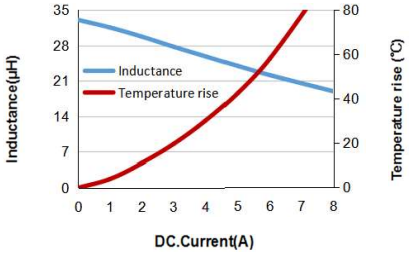

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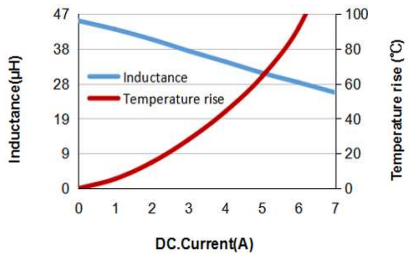

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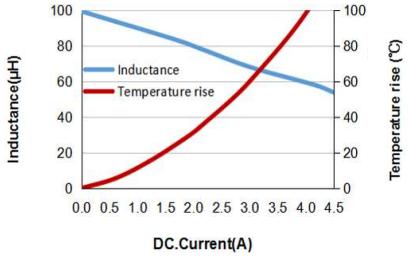

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