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Customized Item AEC-Q200 standard compliance

RoHS COMPLIANT

UPIMBS0603 SERIES

HIGH POWER INDUCTOR

Applications:

Enable 3D View

. Automotive reliability comply with **AEC-Q200** grade 1

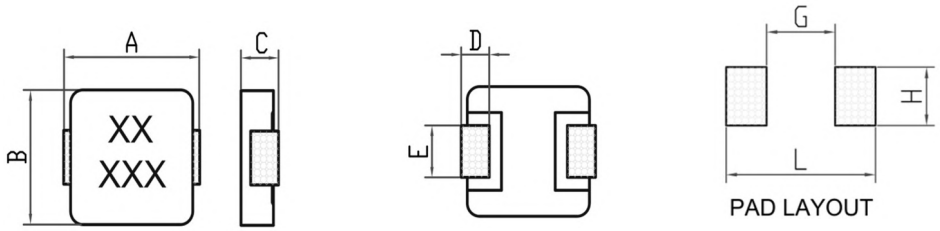
. DC/DC converters for entertainment/navigation systems

. Noise suppression for motors

. LED drivers

This is the product 3D document.
Please click "Trust the document" to preview.

Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	D	E	G	H	L
UPIMBS0603	7.1±0.2	6.6±0.2	2.8±0.2	1.60±0.3	3.0±0.5	3.7	3.5	8.0

Features :

· High performance (Isat) realized by metal dust core.

· Low loss realized with low DCR

· Compliance with RoHS and Halogen Free

Product Identification:

UPIMB S0603 – 1R0 M

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

(1) Product Symbol

(2) Dimensions Code

(3) Inductance: **1R0** for 1.0uH

(4) Tolerance: **M** : ± 20%.

Characteristics:

· Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical

· Temperature Rise Current (Irms) : The current will cause the coil temperature rise approximately △T=40℃.

· Operating Temperature : -55℃ to 125℃

Test 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)

● UPIMBS0603 Series

Part No.	Inductance L0 (uH)	DCR(mΩ)		Isat(A)		Irms(A)		E(mm) ±0.5
		Typ.	Max.	Typ.	Max.	Typ.	Max.	
UPIMBS0603-1R0M	1.0	9.3	10.0	25.0	22.0	14.0	11.0	3.0
UPIMBS0603-1R5M	1.5	13.5	15.0	22.0	18.0	11.0	9.0	3.0
UPIMBS0603-2R2M	2.2	18.3	20.0	15.0	14.0	10.0	8.0	3.0
UPIMBS0603-4R7M	4.7	38.0	40.0	11.0	10.0	6.5	5.5	3.0
UPIMBS0603-6R8M	6.8	54.8	60.0	9.0	8.0	5.0	4.5	3.0
UPIMBS0603-8R2M	8.2	61.5	68.0	8.5	7.5	4.5	4.0	3.0
UPIMBS0603-100M	10.0	102.5	105.0	7.5	7.0	4.0	3.0	3.0
UPIMBS0603-220M	22.0	132.0	155.0	5.0	3.5	3.3	2.5	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%

Isat (Max): DC current（A）that will cause L0 to drop 30% Max

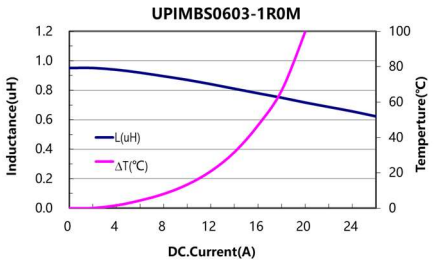
Irms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

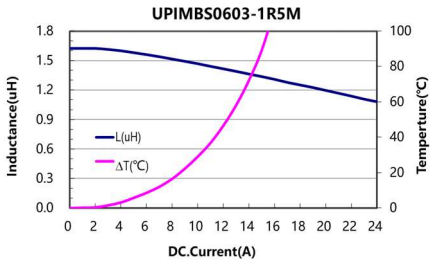
Irms (Max): DC current（A）that will cause an ΔT of 40℃ Max

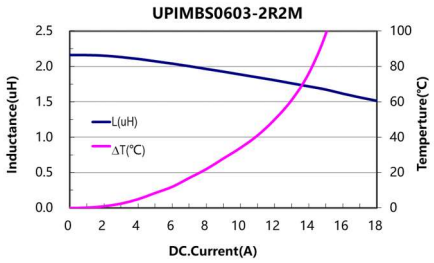
Note 4: Operating Temperature range includes self-temperature rise

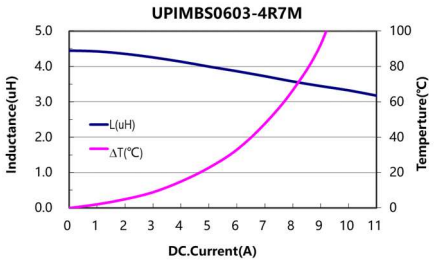
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

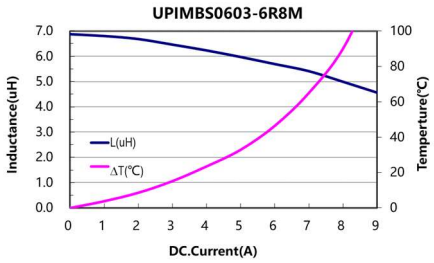
Typical Performance curves：

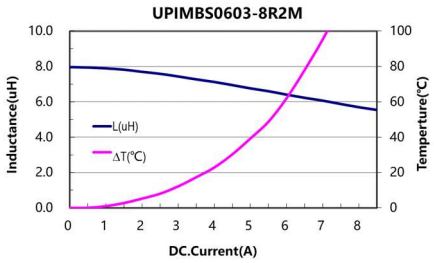


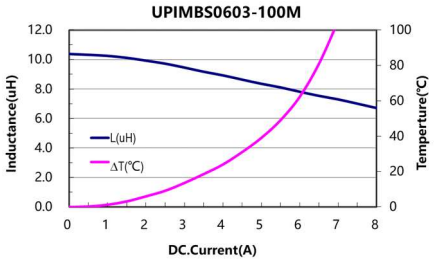


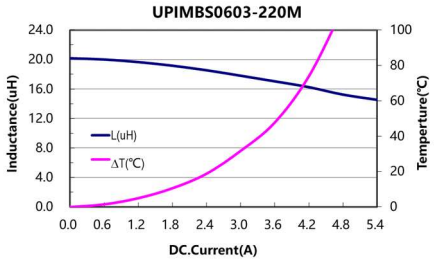












* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

Customized Item AEC-Q200 standard compliance

RoHS COMPLIANT

UPIMB0804 SERIES

HIGH POWER INDUCTOR

Applications:

Enable 3D View

. Automotive reliability comply with **AEC-Q200** grade 1

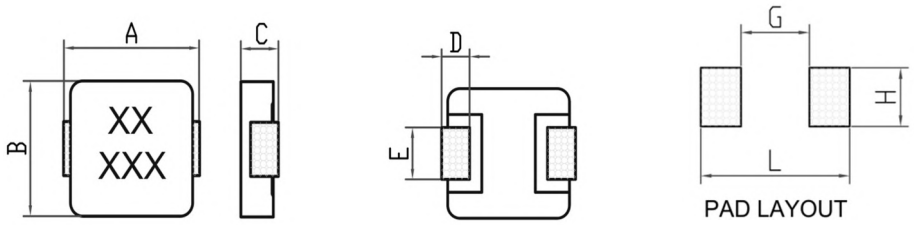
. DC/DC converters for entertainment/navigation systems

. Noise suppression for motors

. LED drivers

This is the product 3D document.
Please click "Trust the document" to preview.

Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	D	E	G	H	L
UPIMB0804	8.6±0.3	8.1±0.25	3.8±0.2	1.8±0.3	3.2±0.5	4.6	3.8	10.6

Features :

· High performance (Isat) realized by metal dust core.

· Low loss realized with low DCR

· Compliance with RoHS and Halogen Free

Product Identification:

UPIMB 0804 – 1R0 M

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

(1) Product Symbol

(2) Dimensions Code

(3) Inductance: **1R0** for 1.0uH

(4) Tolerance: **M** : ± 20%.

Characteristics:

· Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical

· Temperature Rise Current (Irms) : The current will cause the coil temperature rise approximately △T=40℃.

· Operating Temperature : -55℃ to 125℃

Test 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)

● UPIMB0804 Series

Part No.	Inductance L0 (uH)	DCR(mΩ)		Isat(A)		Irms(A)		E(mm) ±0.5
		Typ.	Max.	Typ.	Max.	Typ.	Max.	
UPIMB0804-R33M	0.33	1.23	1.5	52.0	44.0	29.0	25.0	3.2
UPIMB0804-R47M	0.47	1.77	2.2	45.0	39.0	27.0	24.0	3.2
UPIMB0804-1R5M	1.5	7.6	9.5	27.0	23.5	14.0	12.0	3.2
UPIMB0804-4R7M	4.7	17.0	22.6	18.0	15.5	9.0	8.0	3.2
UPIMB0804-100M	10.0	48.2	59.9	11.0	9.5	5.5	4.5	3.2
UPIMB0804-220M	22.0	72.9	95.0	7.2	6.3	4.5	4.0	3.2
UPIMB0804-330M	33.0	119.8	144.0	6.3	5.4	3.5	3.0	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%

Isat (Max): DC current（A）that will cause L0 to drop 30% Max

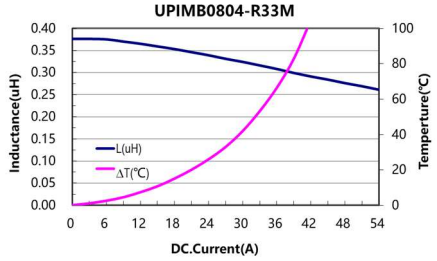
Irms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

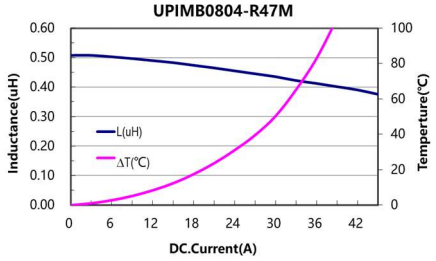
Irms (Max): DC current（A）that will cause an ΔT of 40℃ Max

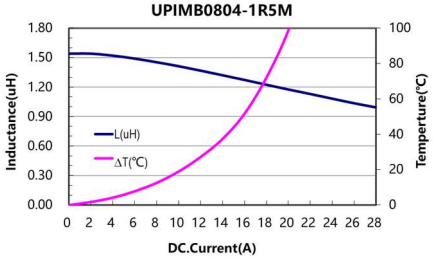
Note 4: Operating Temperature range includes self-temperature rise

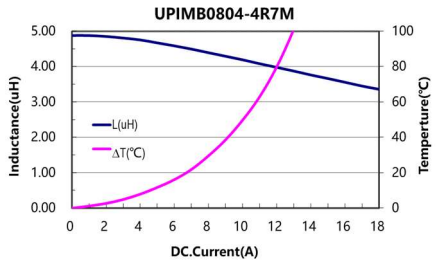
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

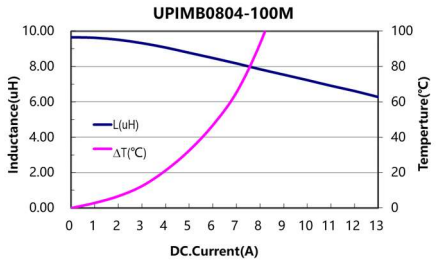
Typical Performance curves：

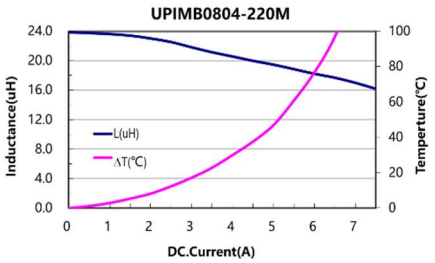


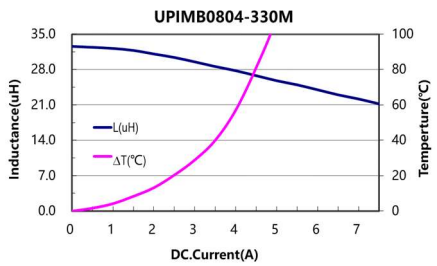












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Customized Item AEC-Q200 standard compliance

HF Halogen Free RoHS COMPLIANT

UPIMB1004T SERIES

HIGH POWER INDUCTOR

Enable 3D View

Applications:

. Automotive reliability comply with **AEC-Q200** grade 1

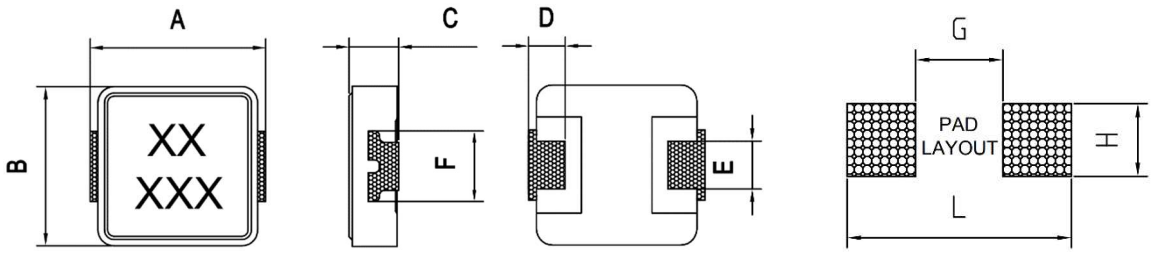
. DC/DC converters for entertainment/navigation systems

. Noise suppression for motors

. LED drivers

This is the product 3D document.
Please click "Trust the document" to preview.

Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	D	E	F	G	H	L
UPIMB1004T	11.0±0.5	10±0.3	4.0 Max	2.3±0.3	3.0±0.5	4.4±0.3	5.4	4.5	12.4

Features :

· High performance (Isat) realized by metal dust core.

· Low loss realized with low DCR

· Compliance with RoHS and Halogen Free

Product Identification:

UPIMB	1004	T	–	1R0	M
(1)	(2)	(3)		(4)	(5)

(1) Product Symbol

(2) Dimensions Code

(3) Product Series（T）

(4) Inductance: **1R0** for 1.0uH

(5) Tolerance: **M**：± 20%.

Characteristics:

· Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical

· Temperature Rise Current (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)

UPIMB1004T Series

Part No.	Inductance L0 (uH)	DCR(mΩ)		Isat(A)		Irms(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
UPIMB1004T-2R2M	2.2	7.09	9.0	35.0	26.0	16.0	12.0
UPIMB1004T-3R3M	3.3	10.9	12.0	28.0	23.0	12.0	10.0
UPIMB1004T-4R7M	4.7	15.5	16.5	22.0	17.0	11.0	9.5
UPIMB1004T-6R8M	6.8	20.5	23.3	18.0	15.0	9.5	8.0
UPIMB1004T-100M	10.0	28.4	36.5	14.0	12.0	8.0	6.8
UPIMB1004T-220M	22.0	60.6	66.0	7.0	5.0	5.8	5.0
UPIMB1004T-330M	33.0	93.2	98.0	6.5	4.8	4.5	4.1
UPIMB1004T-470M	47.0	145.0	167.0	5.0	4.5	3.5	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%

Isat (Max): DC current（A）that will cause L0 to drop 30% Max

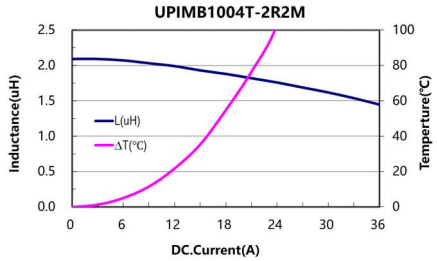
Irms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

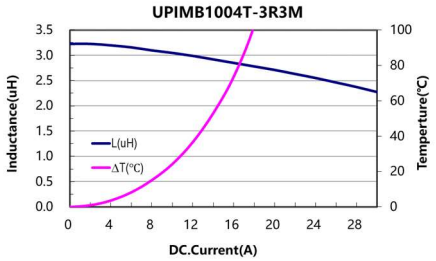
Irms (Max): DC current（A）that will cause an ΔT of 40℃ Max

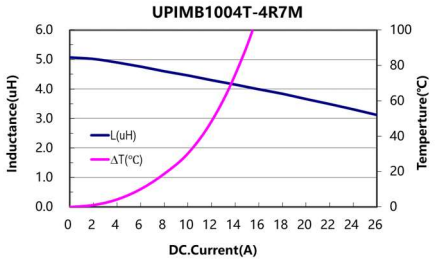
Note 4: Operating Temperature range includes self-temperature rise

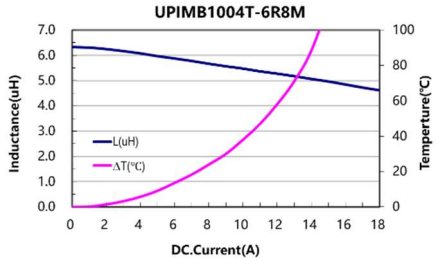
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

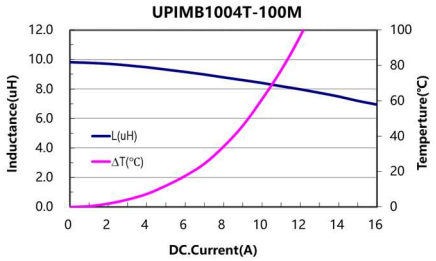
Typical Performance curves：

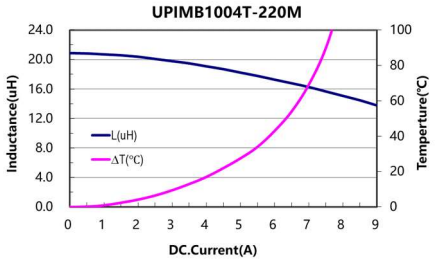


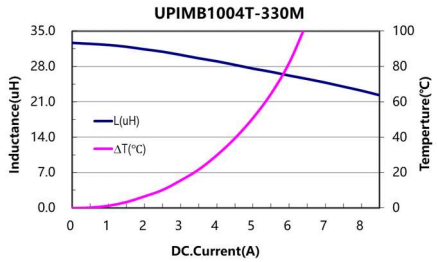


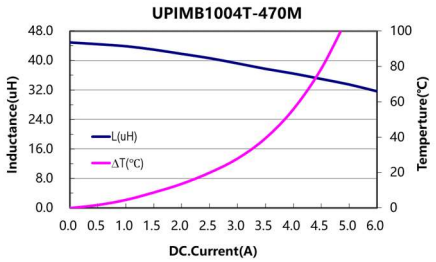












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Customized Item AEC-Q200 standard compliance

RoHS COMPLIANT

UPIMB12 SERIES

HIGH POWER INDUCTOR

Applications:

Enable 3D View

. Automotive reliability comply with **AEC-Q200** grade 1

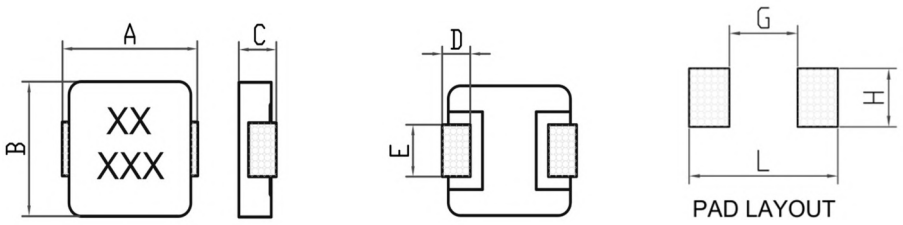
. DC/DC converters for entertainment/navigation systems

. Noise suppression for motors

. LED drivers

This is the product 3D document.
Please click "Trust the document" to preview.

Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	D	E	G	H	L
UPIMB1205	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
UPIMB1265	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 :

· High performance (Isat) realized by metal dust core.

· Low loss realized with low DCR

· Compliance with RoHS and Halogen Free

Product Identification:

UPIMB 1205 – 1R0 M

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

(1) Product Symbol

(2) Dimensions Code

(3) Inductance: **1R0** for 1.0uH

(4) Tolerance: **M** : ± 20%.

Characteristics:

· Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical

· Temperature Rise Current (Irms) : The current will cause the coil temperature rise approximately △T=40℃.

· Operating Temperature : -55℃ to 125℃

Test 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)

● UPIMB1205 Series

Part No.	Inductance L0 (uH)	DCR(mΩ)		Isat(A)		Irms(A)		E(mm)
		Typ.	Max.	Typ.	Max.	Typ.	Max.	±0.5
UPIMB1205-R22M	0.22	0.62	0.8	95.0	85.0	48.0	42.0	3.0
UPIMB1205-R47M	0.47	1.14	1.5	84.0	75.0	38.0	35.0	3.0
UPIMB1205-R68M	0.68	1.33	1.7	70.0	60.0	36.0	33.0	3.0
UPIMB1205-1R0M	1.0	2.2	2.5	65.0	56.0	30.0	27.0	3.0
UPIMB1205-2R2M	2.2	4.4	5.5	37.0	30.0	21.0	19.0	3.0
UPIMB1205-4R7M	4.7	9.72	12.0	29.0	25.0	15.0	13.0	3.0
UPIMB1205-100M	10.0	23.5	28.0	20.5	17.5	9.0	8.0	3.0
UPIMB1205-330M	33.0	73.9	78.0	11.5	10.0	5.2	4.0	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%

Isat (Max): DC current（A）that will cause L0 to drop 30% Max

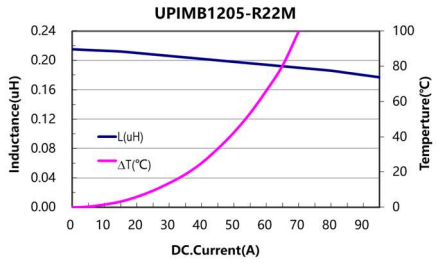
Irms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

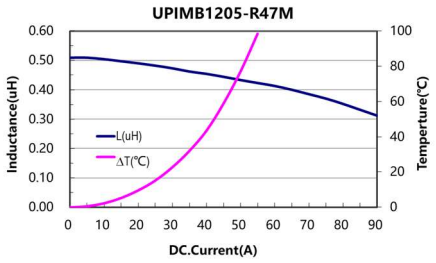
Irms (Max): DC current（A）that will cause an ΔT of 40℃ Max

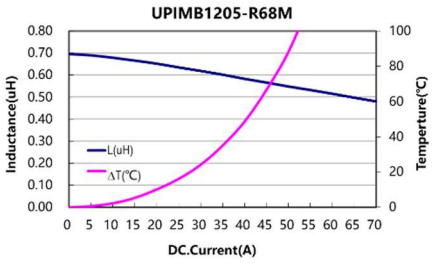
Note 4: Operating Temperature range includes self-temperature rise

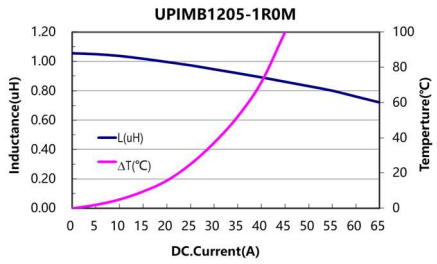
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

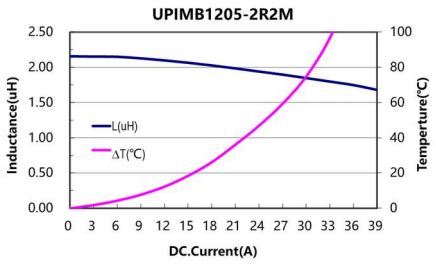
Typical Performance curves：

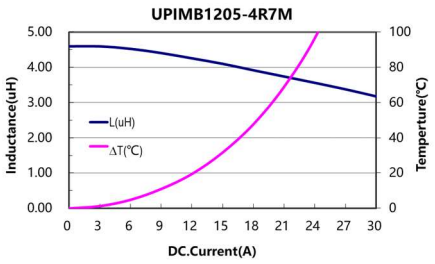


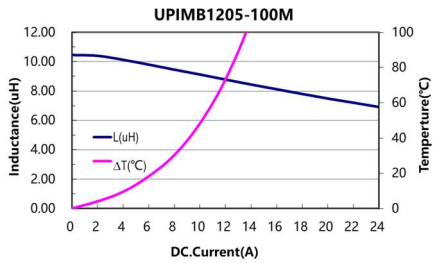


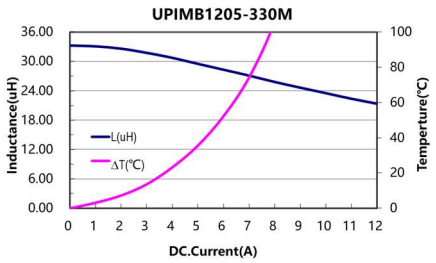












● UPIMB1265 Series

Part No.	Inductance L0 (uH)	DCR(mΩ)		Isat(A)		Irms(A)		E(mm)
		Typ.	Max.	Typ.	Max.	Typ.	Max.	±0.5
UPIMB1265-R33M	0.33	0.65	0.8	95.0	85.0	48.0	45.0	3.0
UPIMB1265-3R3M	3.3	4.3	5.2	44.0	38.0	20.0	17.0	3.0
UPIMB1265-4R7M	4.7	6.4	8.0	40.0	35.0	18.0	15.0	3.0
UPIMB1265-470M	47.0	73.0	90.0	9.0	8.0	5.5	4.5	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%

Isat (Max): DC current（A）that will cause L0 to drop 30% Max

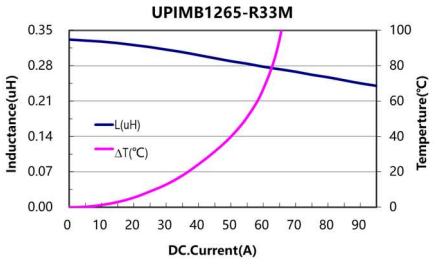
Irms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

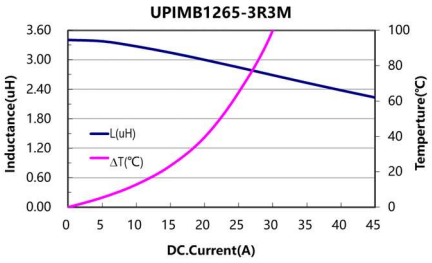
Irms (Max): DC current（A）that will cause an ΔT of 40℃ Max

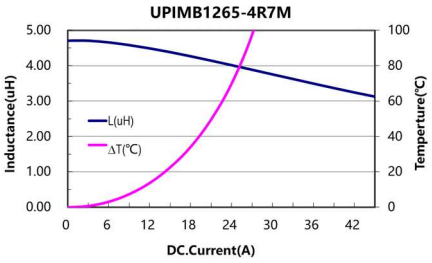
Note 4: Operating Temperature range includes self-temperature rise

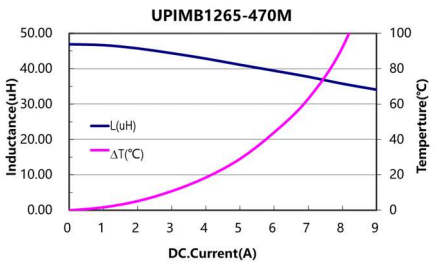
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

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.

3L ELECTRONIC CORPORATION

AEC-Q 200 Qualified

Customized Item AEC-Q200 standard compliance

HF Halogen Free RoHS COMPLIANT

UPIMB12XXT SERIES

HIGH POWER INDUCTOR

Applications:

Enable 3D View

. Automotive reliability comply with **AEC-Q200** grade 1

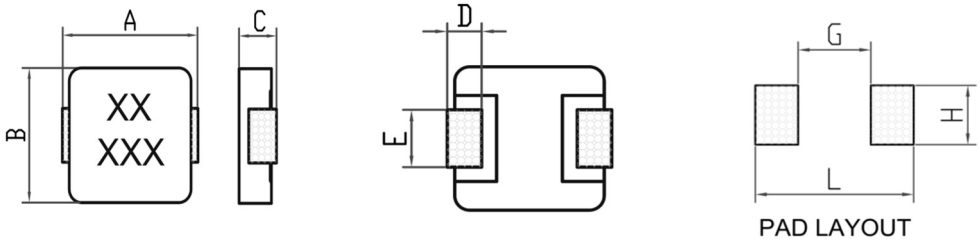
. DC/DC converters for entertainment/navigation systems

. Noise suppression for motors

. LED drivers

This is the product 3D document.
Please click "Trust the document" to preview.

Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	D	E	G	H	L
UPIMB1205T	13.4±0.5	12.6±0.3	5.0 Max	2.30±0.3	4.70±0.3	8.0	5.0	14.5
UPIMB1265T	13.4±0.5	12.6±0.3	6.5 Max	2.30±0.3	4.70±0.3	8.0	5.0	14.5

Features :

· High performance (Isat) realized by metal dust core.

· Low loss realized with low DCR

· Compliance with RoHS and Halogen Free

Product Identification:

UPIMB 1205 T – 4R7 M

(1) (2) (3) (4) (5)

(1) Product Symbol

(2) Dimensions Code

(3) Product Series（T）

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

(5) Tolerance: **M**：± 20%.

Characteristics:

· Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical

· Temperature Rise Current (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)

UPIMB1205T Series

Part No.	Inductance L0 (uH)	DCR(mΩ)		Isat(A)		Irms(A)		E(mm) ±0.3
		Typ.	Max.	Typ.	Max.	Typ.	Max.	
UPIMB1205T-R22M	0.22	0.62	0.8	110.0	90.0	48.0	42.0	4.7
UPIMB1205T-R47M	0.47	1.09	1.5	80.0	70.0	38.0	34.0	4.7
UPIMB1205T-R68M	0.68	1.33	1.7	70.0	60.0	36.0	32.0	4.7
UPIMB1205T-4R7M	4.7	9.72	12.0	29.0	25.0	15.0	13.0	4.7
UPIMB1205T-8R2M	8.2	16.78	20.0	23.0	20.0	11.0	9.0	4.7
UPIMB1205T-100M	10.0	23.5	28.0	20.5	17.5	9.0	8.0	4.7
UPIMB1205T-330M	33.0	73.9	78.0	11.5	10.0	5.0	4.0	4.7

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%

Isat (Max): DC current（A）that will cause L0 to drop 30% Max

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

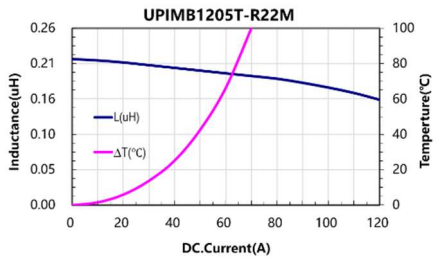
Irms (Max): DC current（A）that will cause an ΔT of 40℃ Max

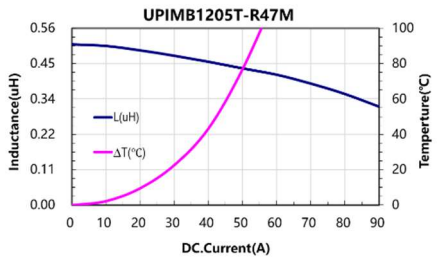
Note 4: Operating Temperature range includes self-temperature rise

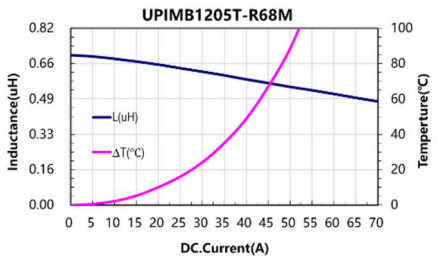
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

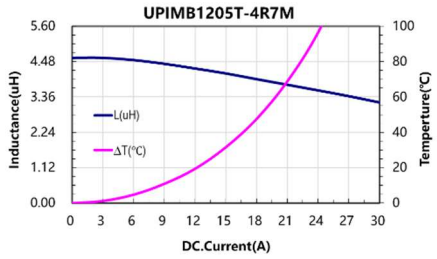
Note 6: The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating condition. Circuit design, component, PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.

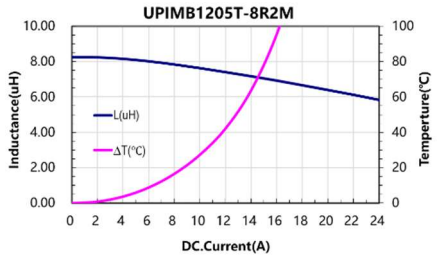
Typical Performance curves：

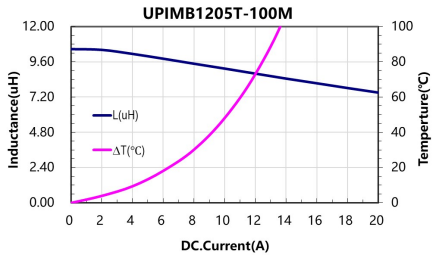


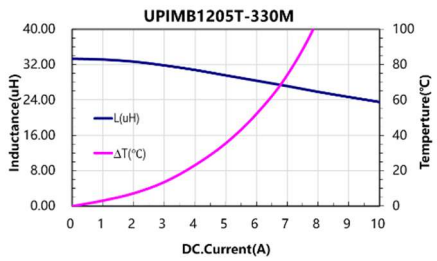












● UPIMB1265T Series

Part No.	Inductance L0 (uH)	DCR(mΩ)		Isat(A)		Irms(A)		E(mm) ±0.3
		Typ.	Max.	Typ.	Max.	Typ.	Max.	
UPIMB1265T-R33M	0.33	0.62	0.8	95.0	85.0	48.0	42.0	4.7
UPIMB1265T-1R0M	1.0	1.14	1.5	51.0	46.0	35.0	32.0	4.7
UPIMB1265T-6R8M	6.8	11.57	13.8	27.0	24.0	15.0	13.0	4.7
UPIMB1265T-100M	10.0	15.9	18.7	23.0	20.0	12.0	10.0	4.7
UPIMB1265T-220M	22.0	33.12	39.0	13.0	11.0	8.0	7.0	4.7
UPIMB1265T-470M	47.0	69.82	88.0	9.5	8.0	5.5	4.5	4.7

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%

Isat (Max): DC current（A）that will cause L0 to drop 30% Max

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

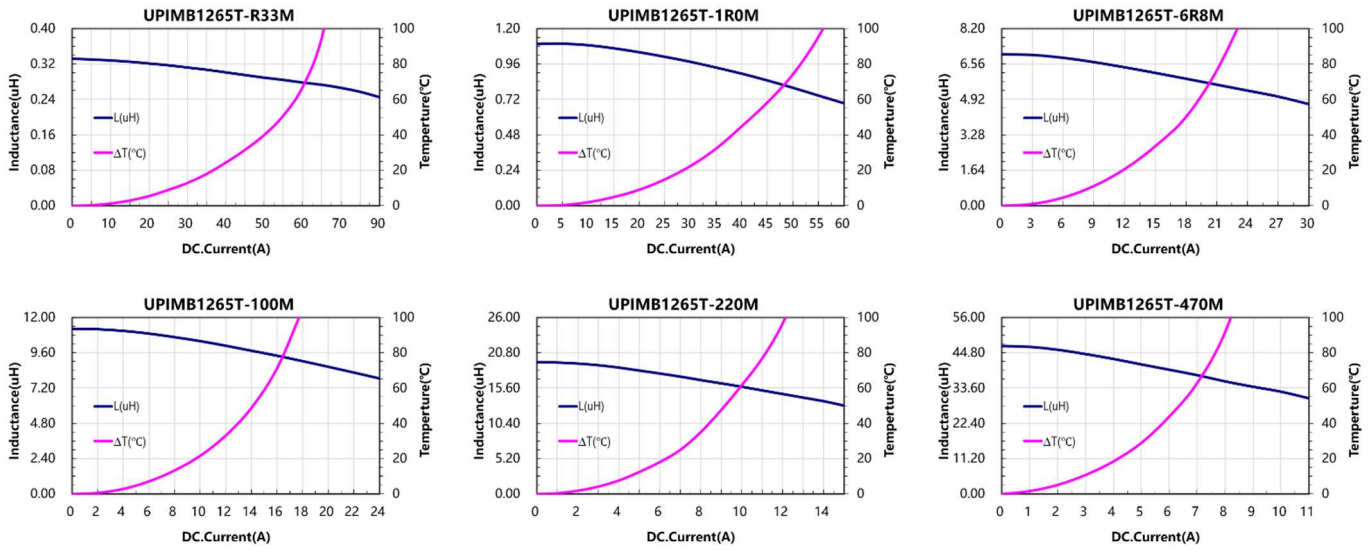
Irms (Max): DC current（A）that will cause an ΔT of 40℃ Max

Note 4: Operating Temperature range includes self-temperature rise

Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Note 6: The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating condition. Circuit design, component, PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.

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.

Customized Item AEC-Q200 standard compliance

RoHS COMPLIANT

UPIMB1707 SERIES

HIGH POWER INDUCTOR

Applications:

Enable 3D View

. Automotive reliability comply with **AEC-Q200** grade 1

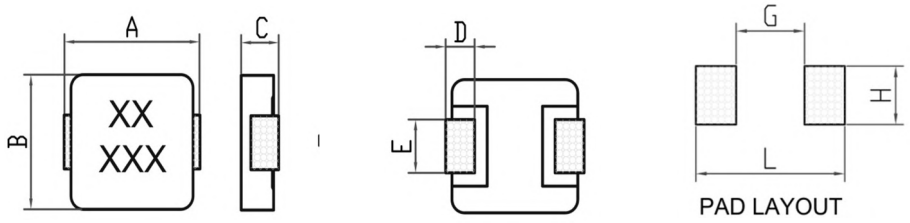
. DC/DC converters for entertainment/navigation systems

. Noise suppression for motors

. LED drivers

This is the product 3D document.
Please click "Trust the document" to preview.

Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	D	E	G	H	L
UPIMB1707	17.3±0.5	17.0±0.3	6.70±0.3	2.10±0.3	12.0±0.3	11.7	12.2	18.0

Features :

· High performance (Isat) realized by metal dust core.

· Low loss realized with low DCR

· Compliance with RoHS and Halogen Free

Product Identification:

UPIMB 1707 – 1R0 M

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

(1) Product Symbol

(2) Dimensions Code

(3) Inductance: **1R0** for 1.0uH

(4) Tolerance: **M** : ± 20%.

Characteristics:

· Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical

· Temperature Rise Current (Irms) : The current will cause the coil temperature rise approximately △T=40℃.

· Operating Temperature : -55℃ to 125℃

Test 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)

● UPIMB1707 Series

Part No.	Inductance L0 (uH)	DCR(mΩ)		Isat(A)		Irms(A)		E(mm) ±0.3
		Typ.	Max.	Typ.	Max.	Typ.	Max.	
UPIMB1707-1R5M	1.5	1.77	1.96	68.0	60.0	48.0	40.0	12.0
UPIMB1707-3R3M	3.3	3.0	3.88	60.0	54.0	36.0	23.5	12.0
UPIMB1707-4R7M	4.7	4.2	5.11	50.0	41.0	33.0	20.0	12.0

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%

Isat (Max): DC current（A）that will cause L0 to drop 30% Max

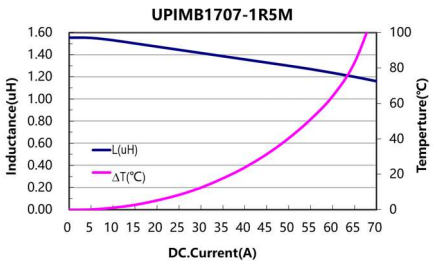
Irms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

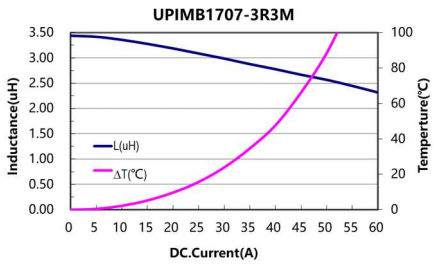
Irms (Max): DC current（A）that will cause an ΔT of 40℃ Max

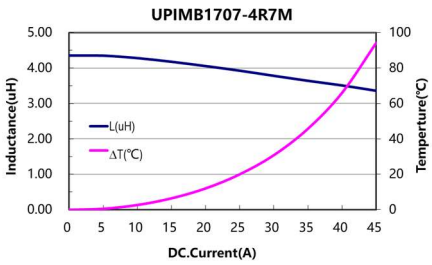
Note 4: Operating Temperature range includes self-temperature rise

Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical Performance curves：







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