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UPIBS0603 SERIES

ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

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

Shape and Dimensions (Dimensions are in mm):



Features :

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

Product Identification :

<u>UPIBS</u>	<u>0603</u>	– <u>2R2</u>	<u>M – C</u>
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(1)	(2)	(3)	(4)	(5)

- (1) Product Symbol.
- (2) Dimensions Code
- (3) Inductance: 2R2 for 2.2 uH.
- (4) Tolerance: **M** : ± 20%.
- (5) Coating

Characteristics:

- Saturation Current (Isat) : The current causes L₀ dropped approximately 30% typically.
- Temperature Rise Current(Irms) : The current causes the coil temperature rised approximately ∆T=40°Cwithout core Loss.
- · Operating Temperature : -55°C to 125°C.

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.



• UPIBS0603 Series

Dart Na	Inductance	DCR (mΩ)	Isat(A)	Irms(A)	Е
Part No.	L(uH)	Тур.	Max.	Typ.	Тур.	±0.5
UPIBS0603-R10M-C	0.10	1.15	1.70	60.0	32.5	2.0
UPIBS0603-R15M-C	0.15	1.35	2.50	52.0	26.0	2.0
UPIBS0603-R20M-C	0.20	2.45	3.00	41.0	24.0	3.0
UPIBS0603-R22M-C	0.22	2.45	2.80	40.0	23.0	3.0
UPIBS0603-R33M-C	0.33	3.10	3.90	30.0	20.0	3.0
UPIBS0603-R47M-C	0.47	4.00	4.20	26.0	17.5	3.0
UPIBS0603-R56M-C	0.56	4.80	5.00	25.5	16.5	3.0
UPIBS0603-R68M-C	0.68	4.95	5.50	25.0	15.5	3.0
UPIBS0603-R82M-C	0.82	7.15	8.00	24.0	13.0	3.0
UPIBS0603-1R0M-C	1.0	9.30	10.0	22.0	11.0	3.0
UPIBS0603-1R2M-C	1.2	11.6	13.0	20.0	10.0	3.0
UPIBS0603-1R5M-C	1.5	13.5	15.0	18.0	9.0	3.0
UPIBS0603-1R8M-C	1.8	14.9	18.0	16.0	8.5	3.0
UPIBS0603-2R2M-C	2.2	18.3	20.0	14.0	8.0	3.0
UPIBS0603-3R3M-C	3.3	28.0	30.0	13.5	6.0	3.0
UPIBS0603-4R7M-C	4.7	38.0	40.0	10.0	5.5	3.0
UPIBS0603-5R6M-C	5.6	46.9	50.0	9.0	5.0	3.0
UPIBS0603-6R8M-C	6.8	54.8	60.0	8.0	4.5	3.0
UPIBS0603-8R2M-C	8.2	61.5	68.0	7.5	4.0	3.0
UPIBS0603-100M-C	10.0	72.4	105.0	7.0	3.0	3.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25 $^\circ\!\mathbb{C}.$

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 °C

Note 4: Operating Temperature range includes self-temperature rise

Typical performance curves :



Lasting. Leaning. Leading

Web : http://www.3lcoil.com





UPIB0804 SERIES

ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

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

Shape and Dimensions (Dimensions are in mm):



8.1±0.25

3.8±0.2

1.80±0.3

Features :

UPIB0804

- · Low profile and low DCR.
- · Shielded construction.
- handles high transient current spikes without saturation

8.60±0.3

- \cdot Ultra low buzz noise, due to composite construction.
- · Compliance with RoHS and Halogen Free

Product Identification :

UPIB	0804	– 2R2	М —	С
			_	_

G

4.6

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

PAD LAYOUT

Н

3.8

L

10.6

(1) Product Symbol.

Е

3.2±0.5

- (2) Dimensions Code
- (3) Inductance: 2R2 for 2.2 uH.
- (4) Tolerance: **M** : ± 20%.
- (5) Coating

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.

- Saturation Current (Isat) : The current causes L₀ dropped approximately 30% typically.
- Temperature Rise Current(Irms) : The current causes the coil temperature rised approximately ∆T=40°Cwithout core Loss.
- \cdot Operating Temperature : -55°C to 125°C.



• UPIB0804 Series

Devit Na	Inductance	DCR (mΩ)	lsat(A)	Irms(A)	E
Part No.	L(uH)) Typ. Max. Typ.		Тур.	±0.5	
UPIB0804-R33M-C	0.33	1.43	1.90	45.0	28.0	3.2
UPIB0804-R47M-C	0.47	1.77	2.20	35.0	27.0	3.2
UPIB0804-3R3M-C	3.30	13.4	17.7	20.0	10.0	3.2
UPIB0804-100M-C	10.0	48.2	59.9	9.5	5.2	3.2
UPIB0804-220M-C	22.0	72.9	93.0	7.0	4.5	3.2
UPIB0804-330M-C	33.0	119.8	144.0	5.4	3.0	3.2

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25°C.

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 $^\circ$ C

Note 4: Operating Temperature range includes self-temperature rise

Typical performance curves :





UPIB1004 SERIES

ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

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

Shape and Dimensions (Dimensions are in mm):





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 :

UPIB	1004	– 2R2	М —	С
				_

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

- (1) Product Symbol.
- (2) Dimensions Code
- (3) Inductance: 2R2 for 2.2 uH.
- (4) Tolerance: **M** : ± 20%.
- (5) Coating

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.

- Saturation Current (Isat) : The current causes L₀ dropped approximately 30% typically.
- Temperature Rise Current(Irms) : The current causes the coil temperature rised approximately ∆T=40°Cwithout core Loss.
- · Operating Temperature : -55°C to 125°C.



• UPIB 1004 Series

Davit Na	Inductance	DCR (mΩ)	lsat(A)	Irms(A)	E
Part No.	L(uH)	Тур.	Max.	Typ.	Тур.	±0.5
UPIB1004-R56M-C	0.56	1.51	1.80	55.0	25.0	3.0
UPIB1004-1R0M-C	1.0	2.75	3.50	40.0	20.0	3.0
UPIB1004-1R5M-C	1.5	3.85	4.20	33.0	16.0	3.0
UPIB1004-2R2M-C	2.2	7.09	9.00	26.0	12.0	3.0
UPIB1004-3R3M-C	3.3	10.9	12.0	23.0	10.0	3.0
UPIB1004-4R7M-C	4.7	15.5	16.5	17.0	9.5	3.0
UPIB1004-6R8M-C	6.8	20.5	23.3	15.0	8.0	3.0
UPIB1004-100M-C	10.0	28.4	36.5	12.0	6.8	3.0
UPIB1004-220M-C	22.0	60.6	66.0	7.0	5.0	3.0
UPIB1004-330M-C	33.0	93.2	105.0	6.5	4.1	3.0
UPIB1004-470M-C	47.0	145.0	167.0	4.5	3.0	3.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25° C.

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°C

Note 4: Operating Temperature range includes self-temperature rise



Typical Performance curves:





UPIB12 SERIES

ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

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

Shape and Dimensions (Dimensions are in mm):







PAD LAYOUT

Item	А	В	С	D	Е	G	Н	L	
UPIB1205	13.4±0.5	12.6±0.3	4.8±0.2	2.30±0.3	3.0±0.5	8.0	5.0	14.5	
UPIB1265	13.4±0.5	12.6±0.3	6.3±0.2	2.30±0.3	3.0±0.5	8.0	5.0	14.5	

Features :

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

Product Identification :

<u>UPIB</u>	<u>1205</u>	– <u>2R2</u>	<u>M</u> –	<u>c</u>
(1)	(2)	(3)	(4)	(5)

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

- (1) Product Symbol.
- (2) Dimensions Code
- (3) Inductance: 2R2 for 2.2 uH.
- (4) Tolerance: **M** : ± 20%.
- (5) Coating

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.

- Saturation Current (Isat) : The current causes L₀ dropped approximately 30% typically.
- Temperature Rise Current(Irms) : The current causes the coil temperature rised approximately ∆T=40°Cwithout core Loss.
- Operating Temperature : -55° C to 125° C.



• UPIB 1205 Series

Don't No.	Inductance	DCR $(m\Omega)$		lsat(A)	Irms(A)	E
Part No.	L(uH)	Тур.	Max.	Тур.	Тур.	±0.5
UPIB1205-R47M-C	0.47	1.14	1.50	65.0	35.0	3.0
UPIB1205-R68M-C	0.68	1.33	1.70	54.0	34.0	3.0
UPIB1205-1R0M-C	1.00	2.04	2.50	50.0	29.0	3.0
UPIB1205-2R2M-C	2.20	4.40	5.50	32.0	20.0	3.0
UPIB1205-100M-C	10.0	23.5	28.0	17.5	9.0	3.0
UPIB1205-330M-C	33.0	73.9	78.0	9.0	5.2	3.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25°C.

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 $^{\circ}C$

Note 4: Operating Temperature range includes self-temperature rise

Typical performance curves :





• UPIB 1265 Series

Dort No.	Inductance	DCR $(m\Omega)$		lsat(A)	Irms(A)	E
Part NO.	L(uH)	Тур.	Max.	Тур.	Тур.	±0.5
UPIB1265-1R0M-C	1.0	1.59	1.90	51.0	35.0	3.0
UPIB1265-3R3M-C	3.3	4.35	5.20	40.0	20.0	3.0
UPIB1265-4R7M-C	4.7	5.97	7.20	32.0	18.0	3.0
UPIB1265-470M-C	47.0	74.2	90.0	9.0	4.5	3.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25°C.

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 $^\circ$ C

Note 4: Operating Temperature range includes self-temperature rise

Typical performance curves :







UPIB17 SERIES

ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

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

Shape and Dimensions (Dimensions are in mm):







PAD LAYOUT

Item	А	В	С	D	Е	G	Н	L	
UPIB1704	17.3±0.5	17.0±0.3	3.8±0.2	2.10±0.3	12.0±0.3	11.7	12.2	18.0	
UPIB1707	17.3±0.5	17.0±0.3	6.7±0.3	2.10±0.3	12.0±0.3	11.7	12.2	18.0	

Features :

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

Product Identification :

UPIB	<u> 1704 – 2R</u>	<u>2 M</u> –	<u>C</u>

- (1) (2) (3) (4) (5)
- (1) Product Symbol.
- (2) Dimensions Code
- (3) Inductance: 2R2 for 2.2 uH.
- (4) Tolerance: **M** : ± 20%.
- (5) Coating

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.

- Saturation Current (Isat) : The current causes L₀ dropped approximately 30% typically.
- Temperature Rise Current(Irms) : The current causes the coil temperature rised approximately ∆T=40°Cwithout core Loss.
- Operating Temperature : -55° C to 125° C.



• UPIB1704 Series

Dort No.	Inductance	DCR $(m\Omega)$		lsat(A)	Irms(A)	E
Part No.	L(uH)	Тур.	Max.	Тур.	Тур.	±0.3
UPIB1704-2R2M-C	2.2	5.73	6.40	40.0	19.0	12
UPIB1704-3R3M-C	3.3	7.70	9.51	31.0	18.5	12
UPIB1704-4R7M-C	4.7	10.01	11.2	27.0	16.0	12
UPIB1704-6R8M-C	6.8	14.70	16.0	21.0	13.2	12
UPIB1704-8R2M-C	8.2	16.50	17.6	20.0	11.5	12
UPIB1704-100M-C	10.0	22.70	25.6	19.5	10.5	12

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25 °C.

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°C

Note 4: Operating Temperature range includes self-temperature rise

Typical performance curves :





• UPIB1707 Series

Don't No.	Inductance	DCR $(m\Omega)$		lsat(A)	Irms(A)	E
Part No.	L(uH)	Тур.	Max.	Тур.	Тур.	±0.3
UPIB1707-1R5M-C	1.5	1.77	1.88	65.0	42.0	12
UPIB1707-4R7M-C	4.7	3.42	4.50	41.0	30.0	12
UPIB1707-5R6M-C	5.6	4.20	5.60	40.0	28.0	12
UPIB1707-6R8M-C	6.8	5.40	7.50	32.0	19.0	12
UPIB1707-100M-C	10.0	8.85	12.0	29.0	17.0	12
UPIB1707-150M-C	15.0	17.84	19.9	25.0	12.5	12
UPIB1707-220M-C	22.0	24.43	26.5	23.0	11.0	12
UPIB1707-470M-C	47.0	34.77	45.0	13.0	9.0	12

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25°C.

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 °C

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.

Lasting. Leaning. Leading



UPIB2213 SERIES

ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

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

Shape and Dimensions (Dimensions are in mm):



22.0±0.5

12.5±0.5

5.00±0.4

Features :

UPIB2213

- \cdot Low profile and low DCR.
- · Shielded construction.
- handles high transient current spikes without saturation

23.0±0.5

- \cdot Ultra low buzz noise, due to composite construction.
- · Compliance with RoHS and Halogen Free

Product Identification :

UPIB	2213 -	- 100	М —	С
				_

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

G

12.2

(1) Product Symbol.

Е

18.5±0.3

- (2) Dimensions Code
- (3) Inductance: 2R2 for 2.2 uH.
- (4) Tolerance: **M** : ± 20%.
- (5) Coating

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.

Characteristics:

- Saturation Current (Isat) : The current causes L₀ dropped approximately 30% typically.
- Temperature Rise Current(Irms) : The current causes the coil temperature rised approximately ∆T=40°Cwithout core Loss.
- \cdot Operating Temperature : -55°C to 125°C.





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19.6

L

23.8



UPIB2213 Series

Dort No.	Inductance	DCR (mΩ)		lsat(A)	Irms(A)	E
Part NO.	L(uH)	Тур.	Max.	Тур.	Тур.	±0.3
UPIB2213-100M-C	10.0	3.8	4.6	44.0	35.0	18.5
UPIB2213-150M-C	15.0	5.3	6.4	36.0	31.0	18.5
UPIB2213-330M-C	33.0	13.4	16.0	28.0	22.0	18.5

Note 1: Referenced ambient temperature 25°C.

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 $^{\circ}C$

Note 4: Operating Temperature range includes self-temperature rise

Typical performance curves :

