

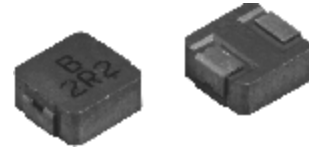


UPI B0522 SERIES

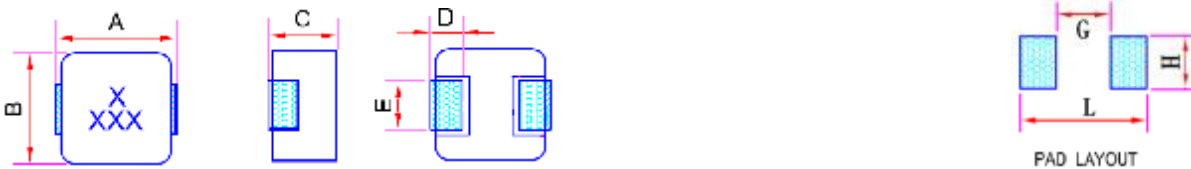
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

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 Max.	B Max.	C Max.	D	E	G	H	L
UPIB0522	5.75	5.44	2.2	1.02±0.3	2.54±0.3	2.16	2.79	5.99

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **B** type frequency up to **5MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 20% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C

Product Identification :

UPI B 0522 - 2R2 M

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

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **B-Powder Type .**
- (3) Dimensions : **0522** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance tolerance: **M**: $\pm 20\%$.

Handling and precautions :

- Please contact us before cleaning this product.

Test equipments :

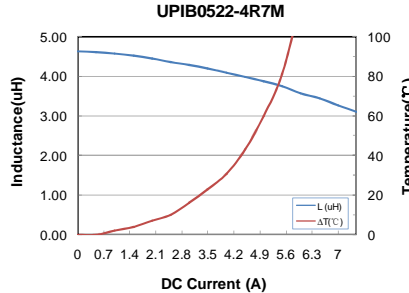
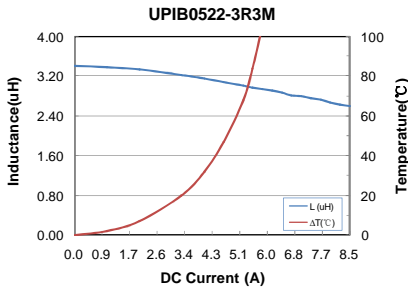
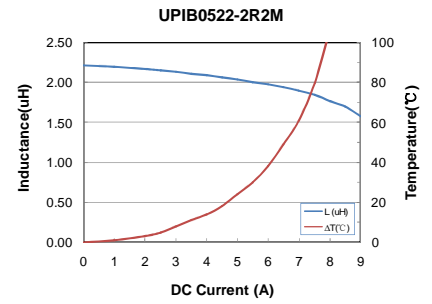
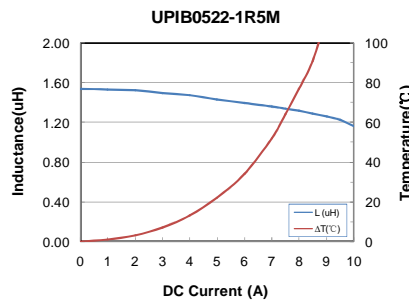
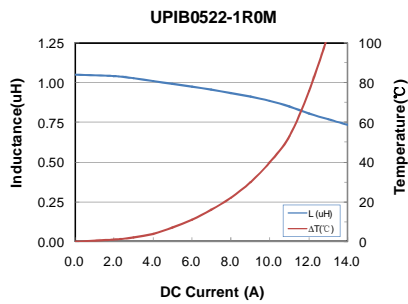
- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C



I UPIB 0522 series

Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.3
		Typical	Maximum			
UPIB0522-1R0M	1.0	19.0	20.0	12.0	7.0	2.54
UPIB0522-1R5M	1.5	30.5	35.0	10.0	5.5	2.54
UPIB0522-2R2M	2.2	43.5	50.0	9.0	4.2	2.54
UPIB0522-3R3M	3.3	77.0	85.5	8.5	3.3	2.54
UPIB0522-4R7M	4.7	74.5	116.6	5.0	2.8	2.54

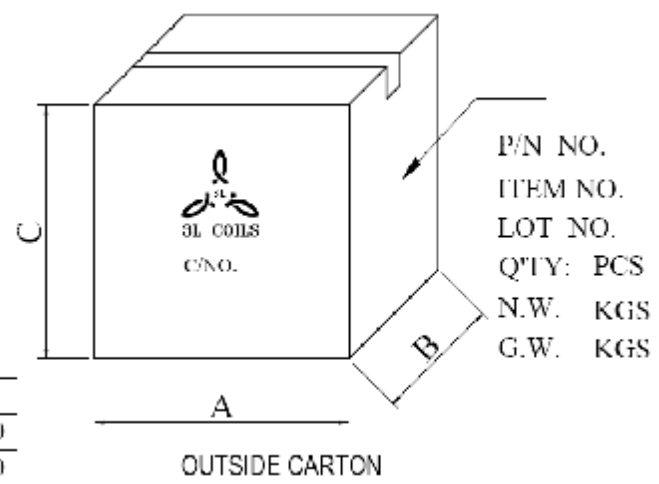
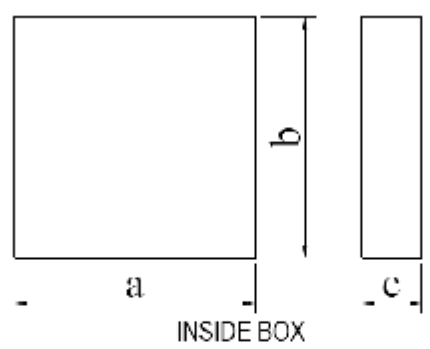
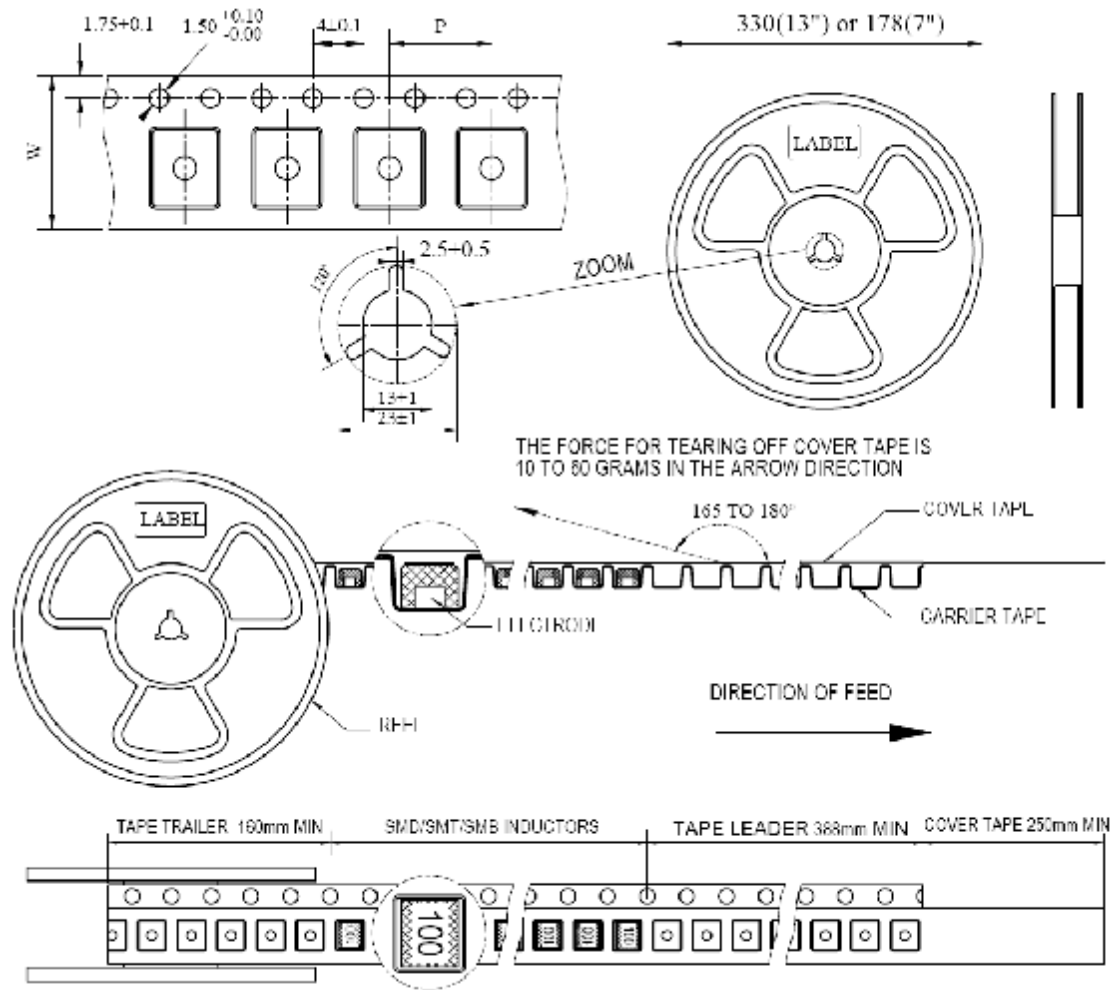
Typical performance curves :



* 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.



I Tape AND Reel Specification



REEL	a	b	c	A	B	C
7"	185	185	70	450	380	210
13"	340	340	95	360	360	400

Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷数)	Q'ty	Q'ty	G.W
UPI 0522	16	12	2000	1.15kg	2	4K	16K	9.5kg	

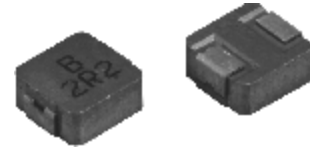


UPI BS0603 SERIES

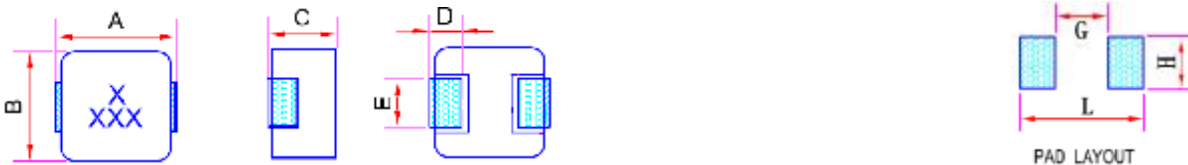
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

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 Max.	B Max.	C Max.	D	E	G	H	L
UPIBS0603	7.25	6.72	3.0	1.6±0.3	By each	3.7	3.5	8.0

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **B** type frequency up to **5MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 20% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C

Product Identification :

UPI B S 0603 - 2R2 M

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

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **B**-Powder Type **S**-Mould Size.
- (3) Dimensions : **0603** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance tolerance: **M**: $\pm 20\%$.

Handling and precautions :

- Please contact us before cleaning this product.

Test equipments :

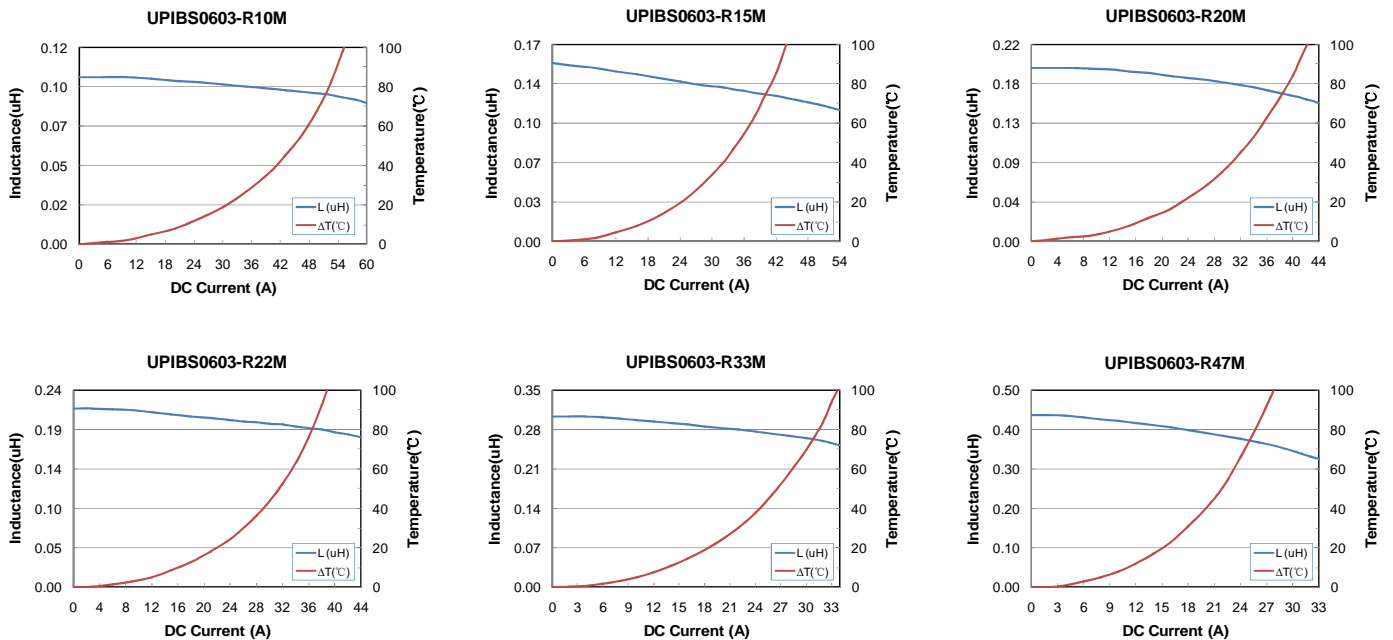
- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C



I UPIBS0603 series

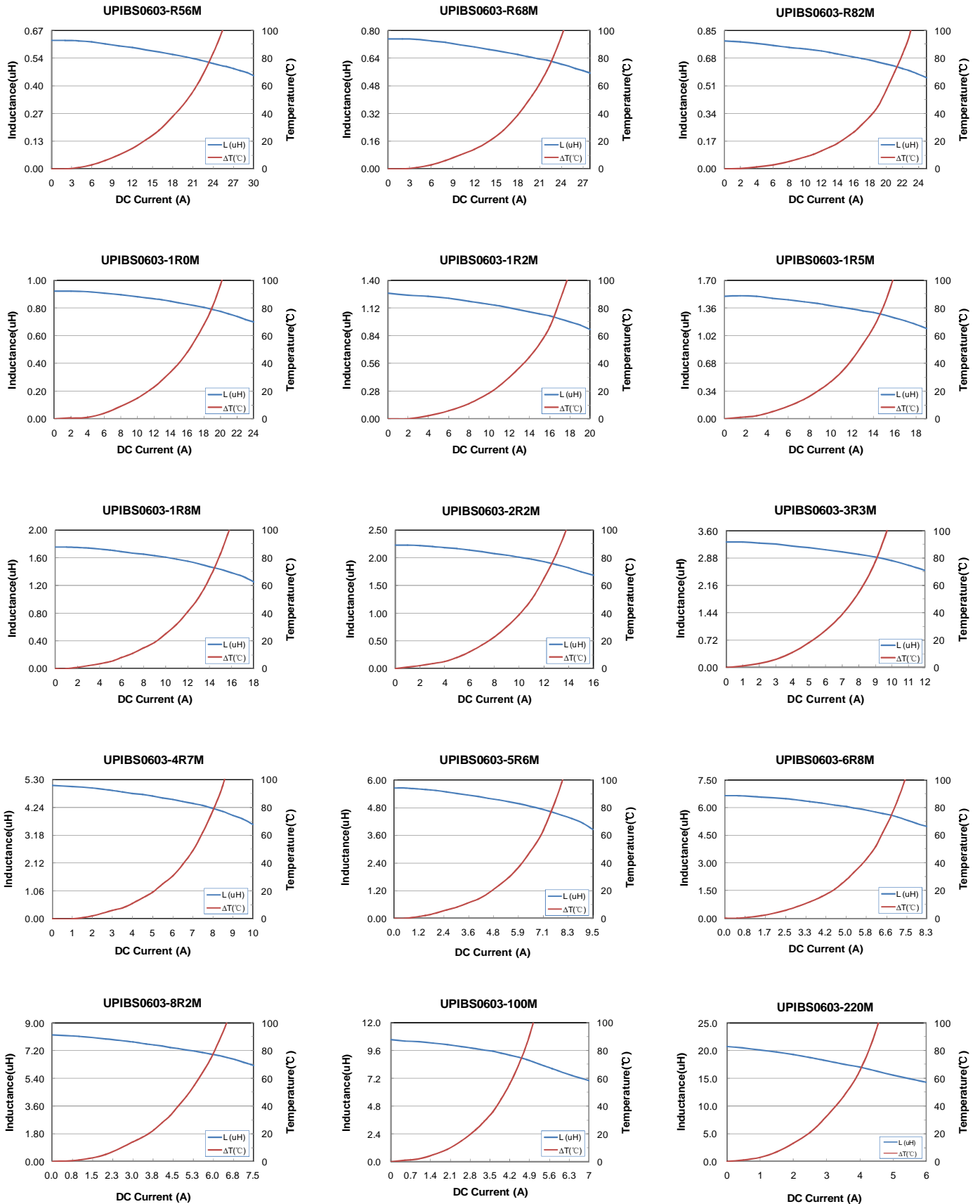
Part No.	Inductance @100kHz L ₀ (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.5
		Typical	Maximum			
UPIBS0603-R10M	0.10	1.15	1.7	60.0	32.5	2.0
UPIBS0603-R15M	0.15	1.35	2.5	52.0	26.0	2.0
UPIBS0603-R20M	0.20	2.45	3.0	41.0	24.0	3.0
UPIBS0603-R22M	0.22	2.45	2.8	40.0	23.0	3.0
UPIBS0603-R33M	0.33	3.1	3.9	30.0	20.0	3.0
UPIBS0603-R47M	0.47	4.0	4.2	26.0	17.5	3.0
UPIBS0603-R56M	0.56	4.8	5.0	25.5	16.5	3.0
UPIBS0603-R68M	0.68	4.95	5.5	25.0	15.5	3.0
UPIBS0603-R82M	0.82	7.15	8.0	24.0	13.0	3.0
UPIBS0603-1R0M	1.0	9.3	10.0	22.0	11.0	3.0
UPIBS0603-1R2M	1.2	11.6	13.0	20.0	10.0	3.0
UPIBS0603-1R5M	1.5	13.5	15.0	18.0	9.0	3.0
UPIBS0603-1R8M	1.8	14.9	18.0	16.0	8.5	3.0
UPIBS0603-2R2M	2.2	18.3	20.0	14.0	8.0	3.0
UPIBS0603-3R3M	3.3	28.0	30.0	13.5	6.0	3.0
UPIBS0603-4R7M	4.7	38.0	40.0	10.0	5.5	3.0
UPIBS0603-5R6M	5.6	46.9	50.0	9.0	5.0	3.0
UPIBS0603-6R8M	6.8	54.8	60.0	8.0	4.5	3.0
UPIBS0603-8R2M	8.2	61.5	68.0	7.5	4.0	3.0
UPIBS0603-100M	10.0	102.5	105.0	7.0	3.0	3.0
UPIBS0603-220M	22.0	155.0	136.0	4.0	2.5	3.0

Typical performance curves :





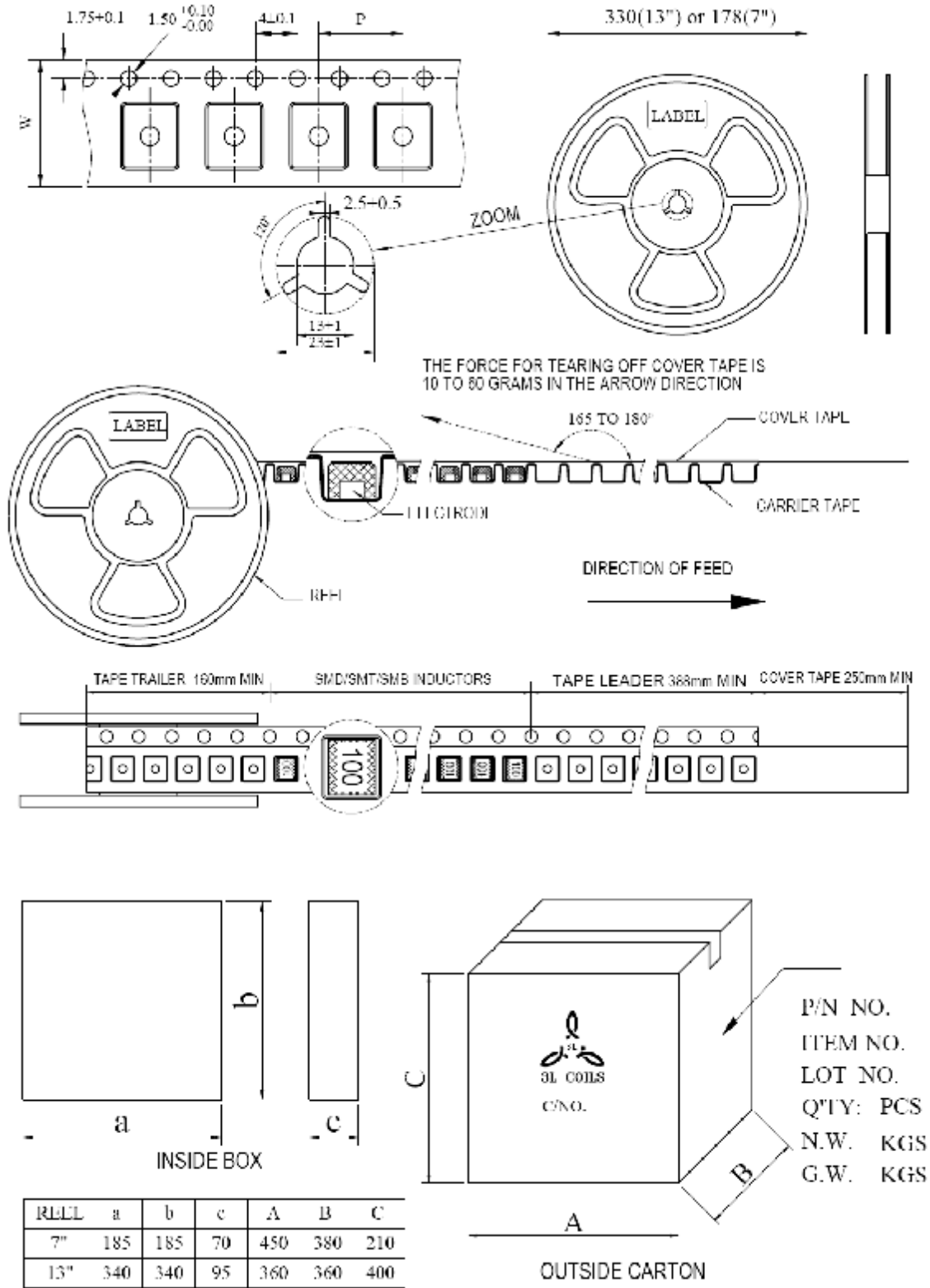
Typical performance curves :



* 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.



I Tape AND Reel Specification



Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷數)	Q'ty	Q'ty	G.W
UPI 0603	16	12		1500	1.35kg	2	3k	12k	17.0kg

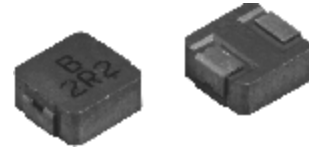


UPI BS0618 SERIES

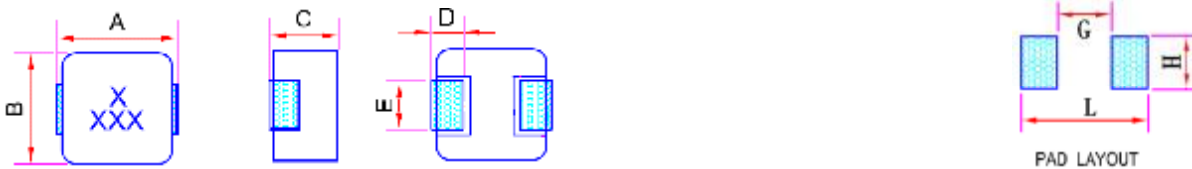
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

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 Max.	B Max.	C Max.	D	E	G	H	L
UPIBS0618	7.25	6.72	1.8	1.6±0.3	3.0±0.5	3.7	3.5	8.0

Features :

- Low profile and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation
- **B** type frequency up to **5MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 20% typical.
- Temperature Rise Current(Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C

Product Identification :

UPI B S 0618 - 2R2 M

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

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **B**-Powder Type **S**-Mould Size.
- (3) Dimensions : **0618** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance tolerance: **M**: $\pm 20\%$.

Handling and precautions :

- Please contact us before cleaning this product.

Test equipments :

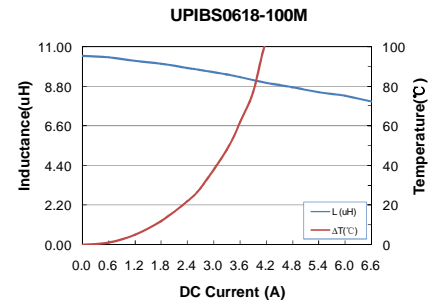
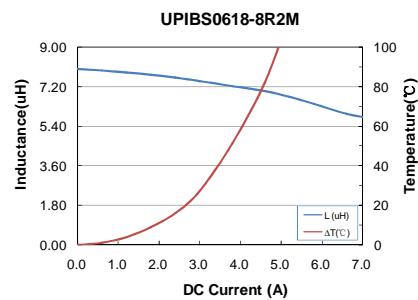
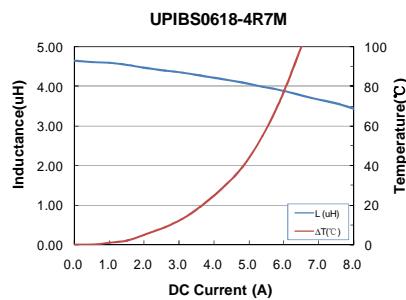
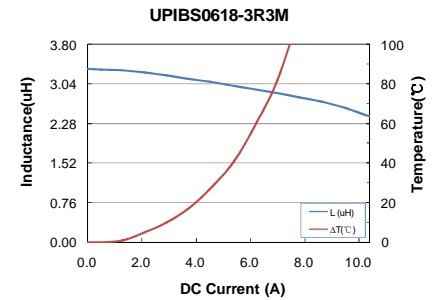
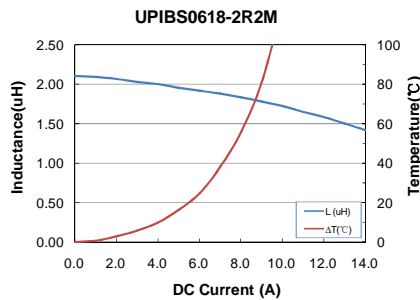
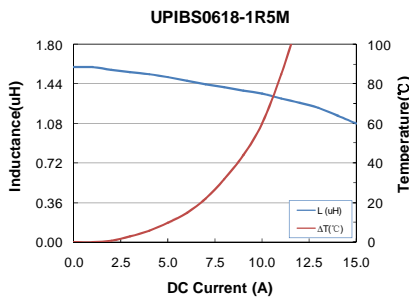
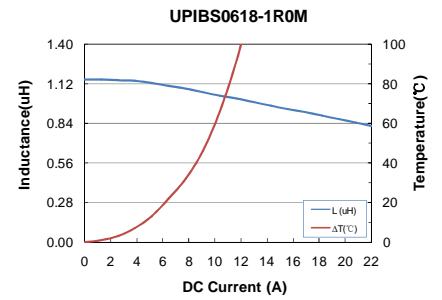
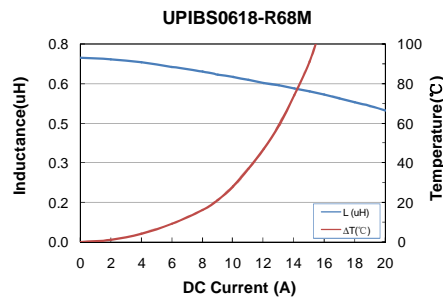
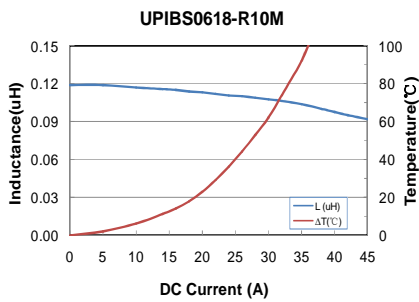
- L test by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C



I UPIBS0618 series

Part No.	Inductance @100kHz L_0 (μH)	DCR ($\text{m}\Omega$)		I_{sat} (A) Typ.	I_{rms} (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIBS0618-R10M	0.10	2.0	2.5	45.0	18.0	3.0
UPIBS0618-R68M	0.68	11.2	13.9	17.0	9.0	3.0
UPIBS0618-1R0M	1.0	16.0	18.3	14.0	7.0	3.0
UPIBS0618-1R5M	1.5	20.0	24.0	14.0	6.5	3.0
UPIBS0618-2R2M	2.2	31.5	35.0	13.0	6.0	3.0
UPIBS0618-3R3M	3.3	40.0	60.0	10.0	3.5	3.0
UPIBS0618-4R7M	4.7	60.0	70.0	5.0	3.5	3.0
UPIBS0618-8R2M	8.2	104.0	120.0	3.5	2.2	3.0
UPIBS0618-100M	10.0	130.0	145.0	3.0	1.8	3.0

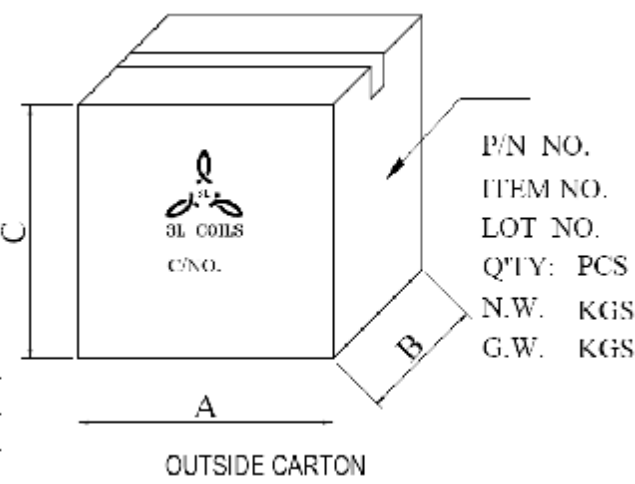
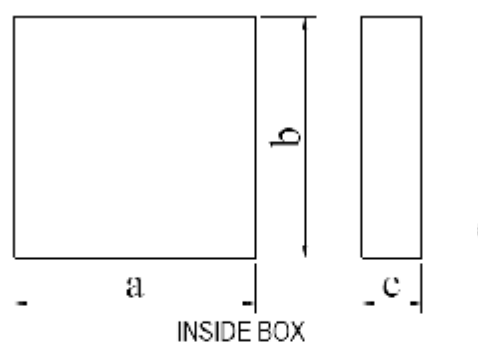
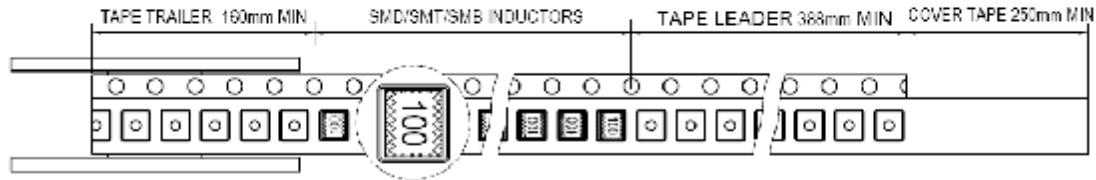
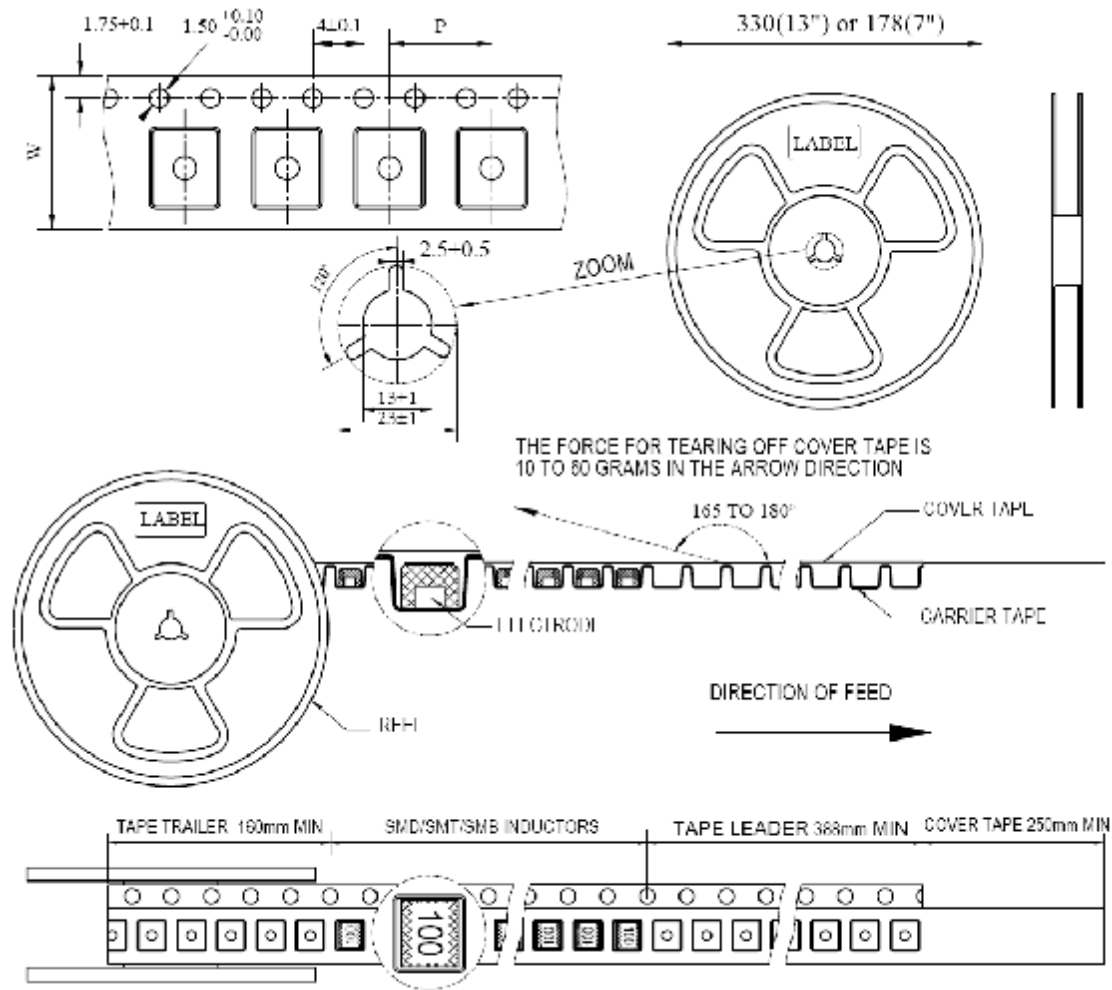
Typical performance curves :



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I Tape AND Reel Specification



REEL	a	b	c	A	B	C
7"	185	185	70	450	380	210
13"	340	340	95	360	360	400

Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷數)	Q'ty	Q'ty	G.W
UPI 0618	16	12	2000	1.35kg	2	4k	16k	12.8kg	