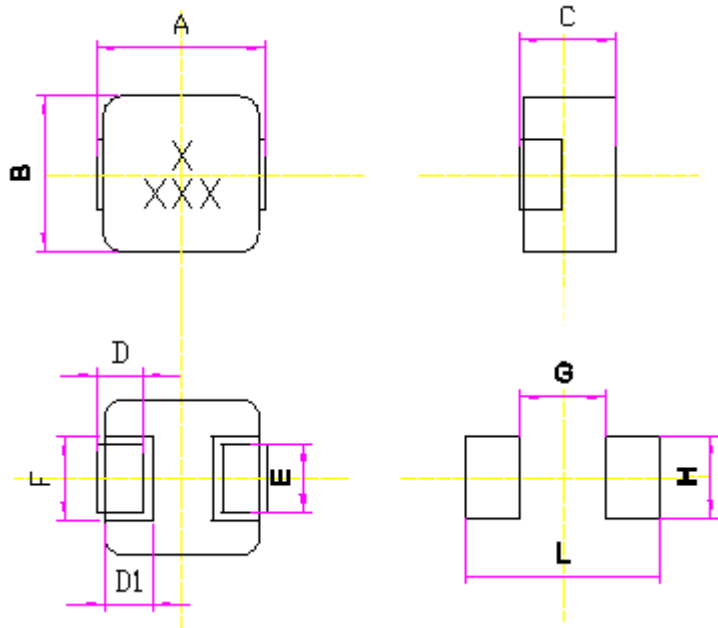


Shape and size: (Dimensions are in mm)


Series	A(max)	B(max)	C(max)	D	E	F	D1	G	H	L
UPIF 1004	11.5	10.3	4.0	2.3±0.3	3.0±0.5	4.7	3.1	5.4	4.5	12.4

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.
- F type frequency up to 3MHz.
- RoHS compliant.

Inductance and rated current ranges:

• UPIF1004 0.19~15.0uH 40~6.25A

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.

HANDLING AND PRECAUTIONS:

Please contact us before cleaning this product.

Maintain a safe distance between this product and other components according to be working voltage.

Ordering information:

UPI F1004 - 1R5 M

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

(1) Series : **U**ltra High Current **S**M**T P**ower **I**nductors.

(2) Style: **F** - Powder Type **1004** - is size

(3) Inductance: **1R5** for 1.5 uH.

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

Characteristics:

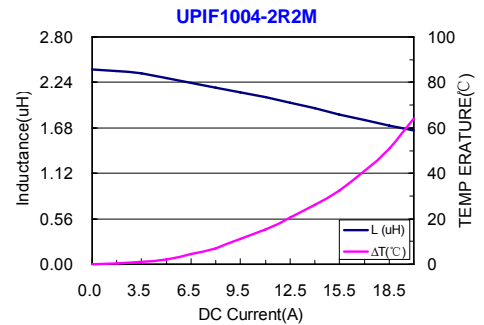
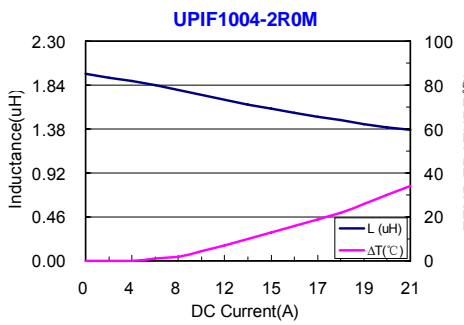
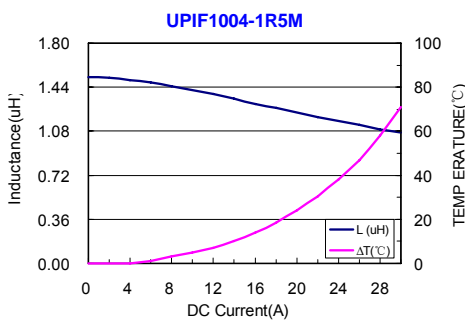
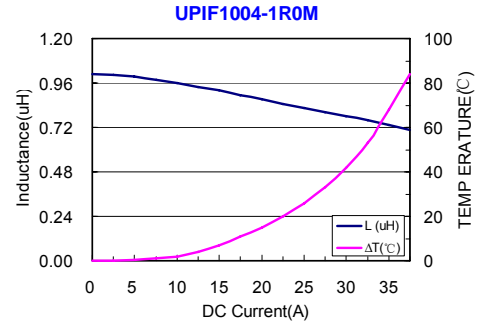
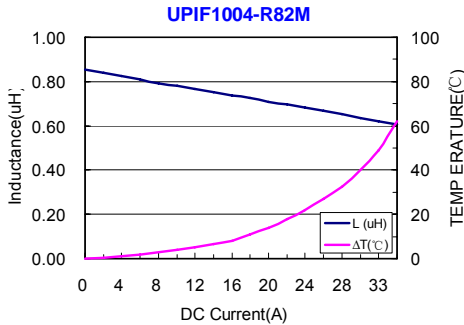
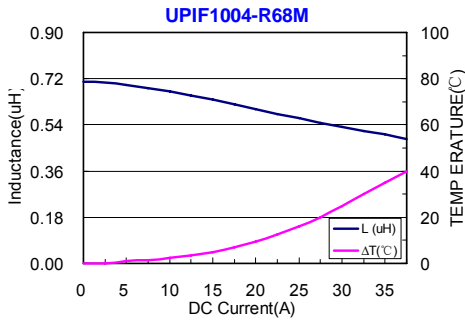
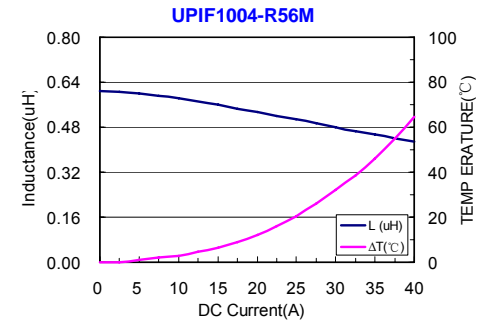
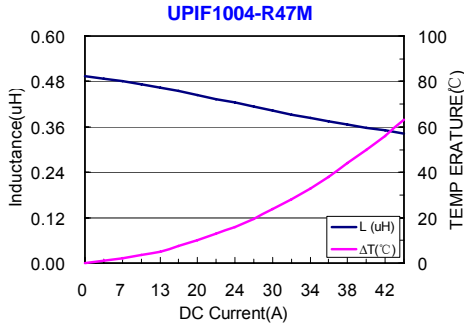
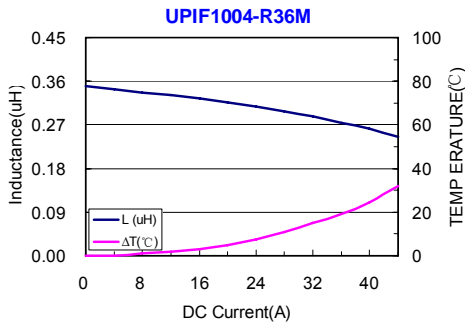
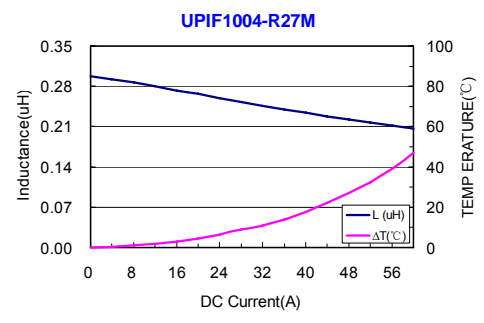
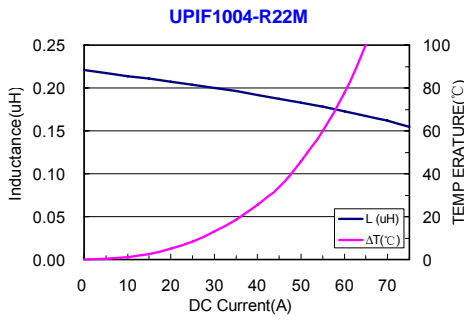
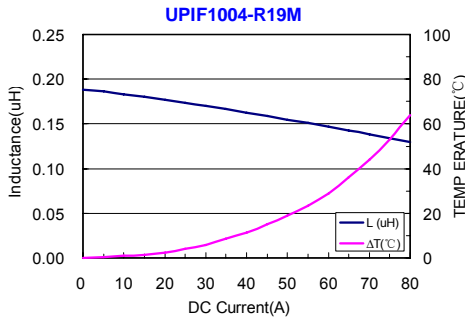
- **Saturation current (Isat):** The current will cause L_0 to drop approximately 20% typical.
- **I rms:** The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$ without core loss.
- **Operating temperature :** -55 °C to 125 °C.

Applications:

- Desktop, and server applications.
- DC/DC converters in distributed power systems
- VGA Card.

Part No.	Inductance L_0 (uH)	Test Freq. (0.25V)	DCR mOHM Max.	Rated DC Current (A) Typ.	
				I sat	I rms
UPIF1004-R19M	0.19	100 KHz	0.80	46.0	40
UPIF1004-R22M	0.22	100 KHz	0.95	44.0	33
UPIF1004-R27M	0.27	100 KHz	0.95	44.0	33
UPIF1004-R36M	0.36	100 KHz	1.15	30.0	32
UPIF1004-R47M	0.47	100 KHz	1.68	30.0	30
UPIF1004-R56M	0.56	100 KHz	1.80	22.0	32
UPIF1004-R68M	0.68	100 KHz	1.85	22.0	27
UPIF1004-R82M	0.82	100 KHz	1.90	22.0	25
UPIF1004-1R0M	1.00	100 KHz	3.30	20	25
UPIF1004-1R5M	1.50	100 KHz	4.30	16	17.0
UPIF1004-2R0M	2.00	100 KHz	5.80	14	16.0
UPIF1004-2R2M	2.20	100 KHz	8.50	12	15.0
UPIF1004-4R7M	4.70	100 KHz	14.2	7.6	9.5
UPIF1004-6R8M	6.80	100 KHz	19.3	7.5	9.0
UPIF1004-8R2M	8.20	100 KHz	28.0	7.3	8.0
UPIF1004-100M	10.0	100 KHz	30.5	7.1	7.5
UPIF1004-150M	15.0	100 KHz	45.0	6.0	6.25

Typical performance curves



Typical performance curves

