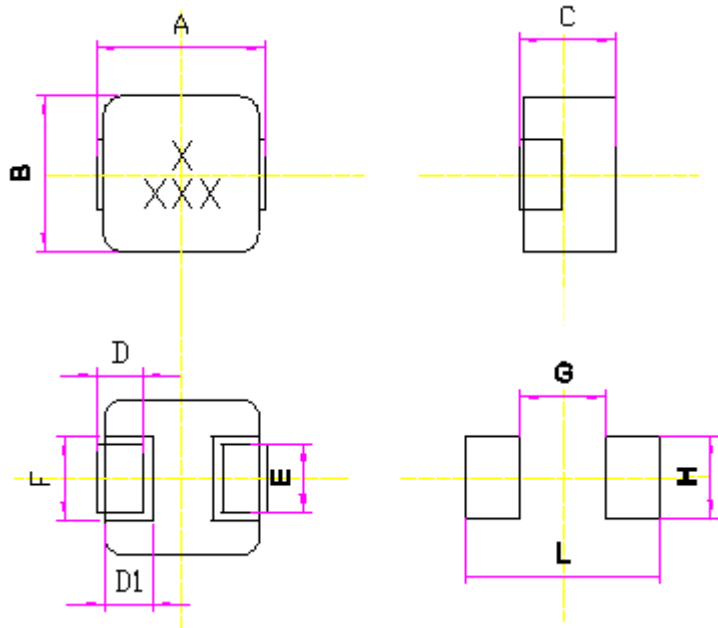


Shape and size: (Dimensions are in mm)


Series	A(max)	B(max)	C(max)	D	E	F	D1	G	H	L
UPIA 0603	7.8	7.0	3.2	1.6±0.3	By each P/N	3.6	2.1	3.7	3.5	8.0

Features:

- Lowest height and DCR in this package footprint.
- Shielded construction.
- handles high transient current spikes without saturation.
- A type frequency up to 1MHz.
- Ultra low buzz noise, due to composite construction
- RoHS compliant

Ordering information:
UPI A0603 - 1R5 M

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

(1) Series : **U**ltra High Current SMT **P**ower **I**nductors.

(2) Style: **A**Type, **0603** is size.

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

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

Inductance and rated current ranges:

• UPIA 0603 0.1~10uH 32.5~3.0A

• 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.

Characteristics:

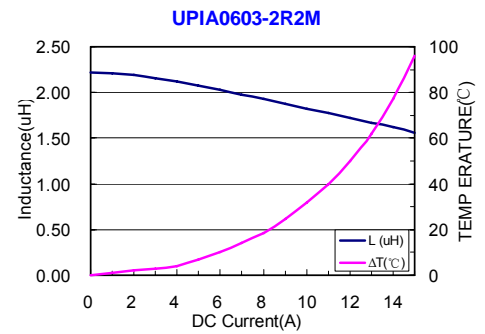
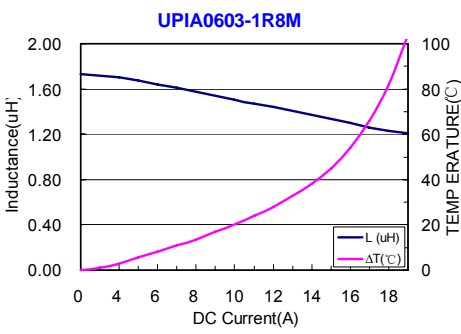
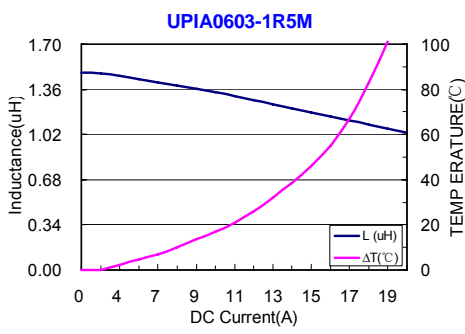
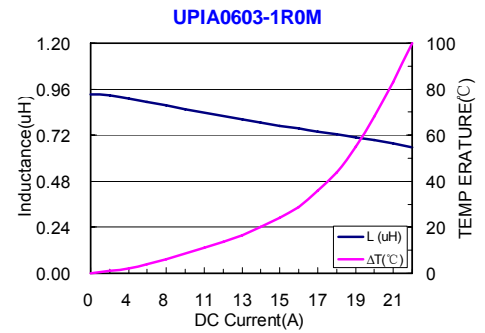
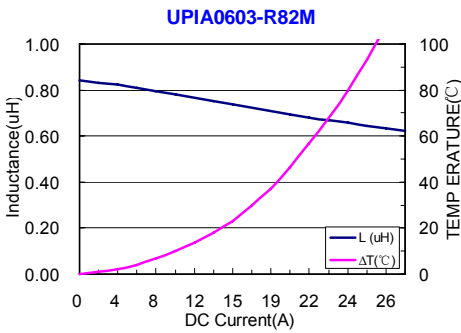
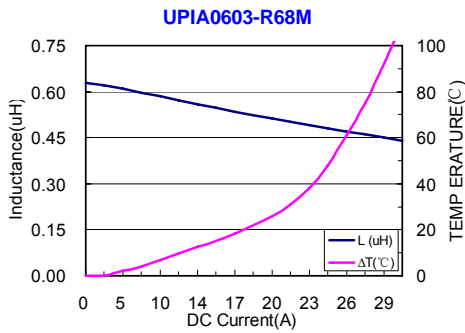
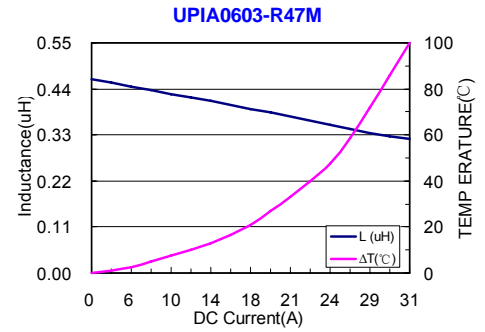
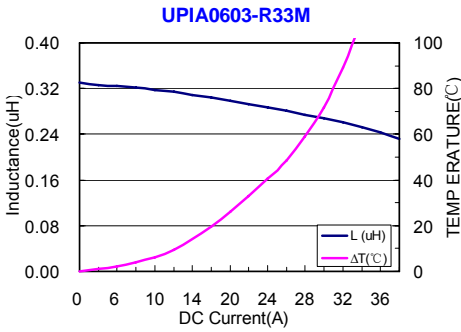
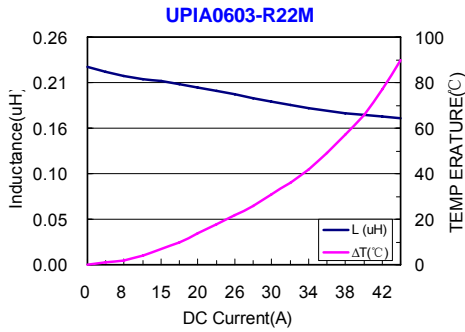
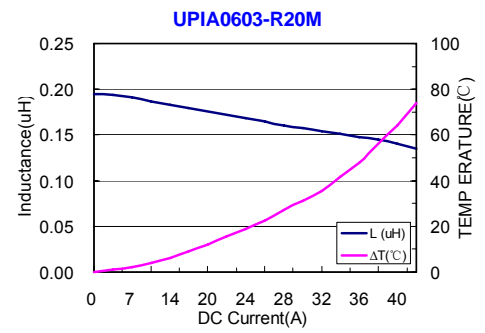
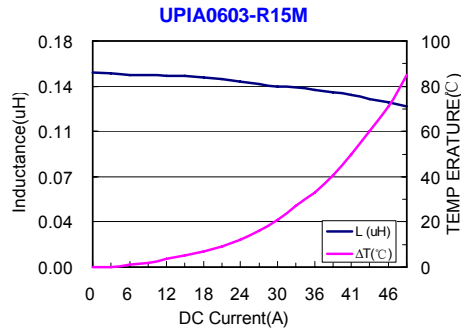
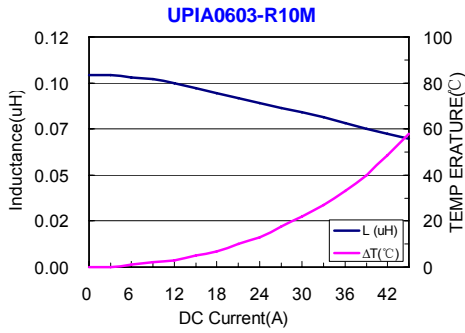
- **Saturation current (Isat):** The current will cause L₀ to drop approximately 20% typical.
- **Temperature rise current (I_{rms}) :** The current will cause the coil temperature rise approximately ΔT=40°C without core loss.
- Operating temperature : -55 °C to 125 °C.

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.		E mm ± 0.5
				I sat	I rms	
UPIA0603-R10M	0.10	100 KHz	1.70	42	32.5	2.0
UPIA0603-R15M	0.15	100 KHz	2.50	38	26.0	2.0
UPIA0603-R20M	0.20	100 KHz	3.00	36	24.0	2.0
UPIA0603-R22M	0.22	100 KHz	2.80	36	23.0	2.0
UPIA0603-R33M	0.33	100 KHz	3.90	30	20.0	3.0
UPIA0603-R47M	0.47	100 KHz	4.20	26	17.5	3.0
UPIA0603-R56M	0.56	100 KHz	4.80	24	16.5	3.0
UPIA0603-R68M	0.68	100 KHz	5.50	23	15.5	3.0
UPIA0603-R82M	0.82	100 KHz	8.00	20	13.0	3.0
UPIA0603-1R0M	1.00	100 KHz	10.0	16	11.0	3.0
UPIA0603-1R5M	1.50	100 KHz	15.0	14	9.00	3.0
UPIA0603-1R8M	1.80	100 KHz	18.0	12	8.00	3.0
UPIA0603-2R2M	2.20	100 KHz	20.0	12	8.00	3.0
UPIA0603-3R3M	3.30	100 KHz	30.0	10	6.00	3.0
UPIA0603-4R7M	4.70	100 KHz	40.0	6.5	5.50	3.0
UPIA0603-6R8M	6.80	100 KHz	60.0	6.0	4.50	3.0
UPIA0603-8R2M	8.20	100 KHz	68.0	5.5	4.00	3.0
UPIA0603-100M	10.0	100 KHz	105.0	5.0	3.00	3.0

UPIA Typical performance curves



Typical performance curves

