

## SMMS SERIES

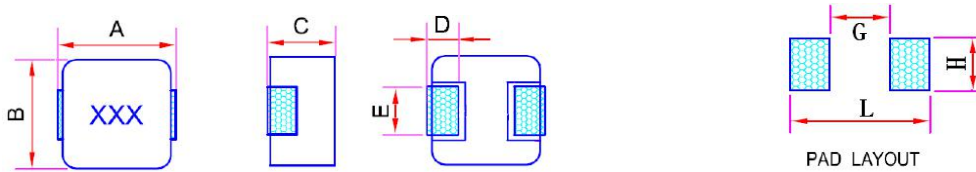
Molding POWER INDUCTOR.



### 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
SMMS0630	7.30	6.60±0.3	3.0	1.6±0.5	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
- F type frequency up to **3MHz**.
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

### Product Identification:

**SM MS 0630 - 2R2 M**

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

- (1) Series : **Molding Power Inductors**.
- (2) Style : **F-Powder Type**
- (3) Dimensions : **0630** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance 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  $\Delta T=40^\circ\text{C}$  without core Loss.
- Operating Temperature :  $-55^\circ\text{C}$  to  $125^\circ\text{C}$

### Handling and precautions:

- Please contact us before cleaning this product.

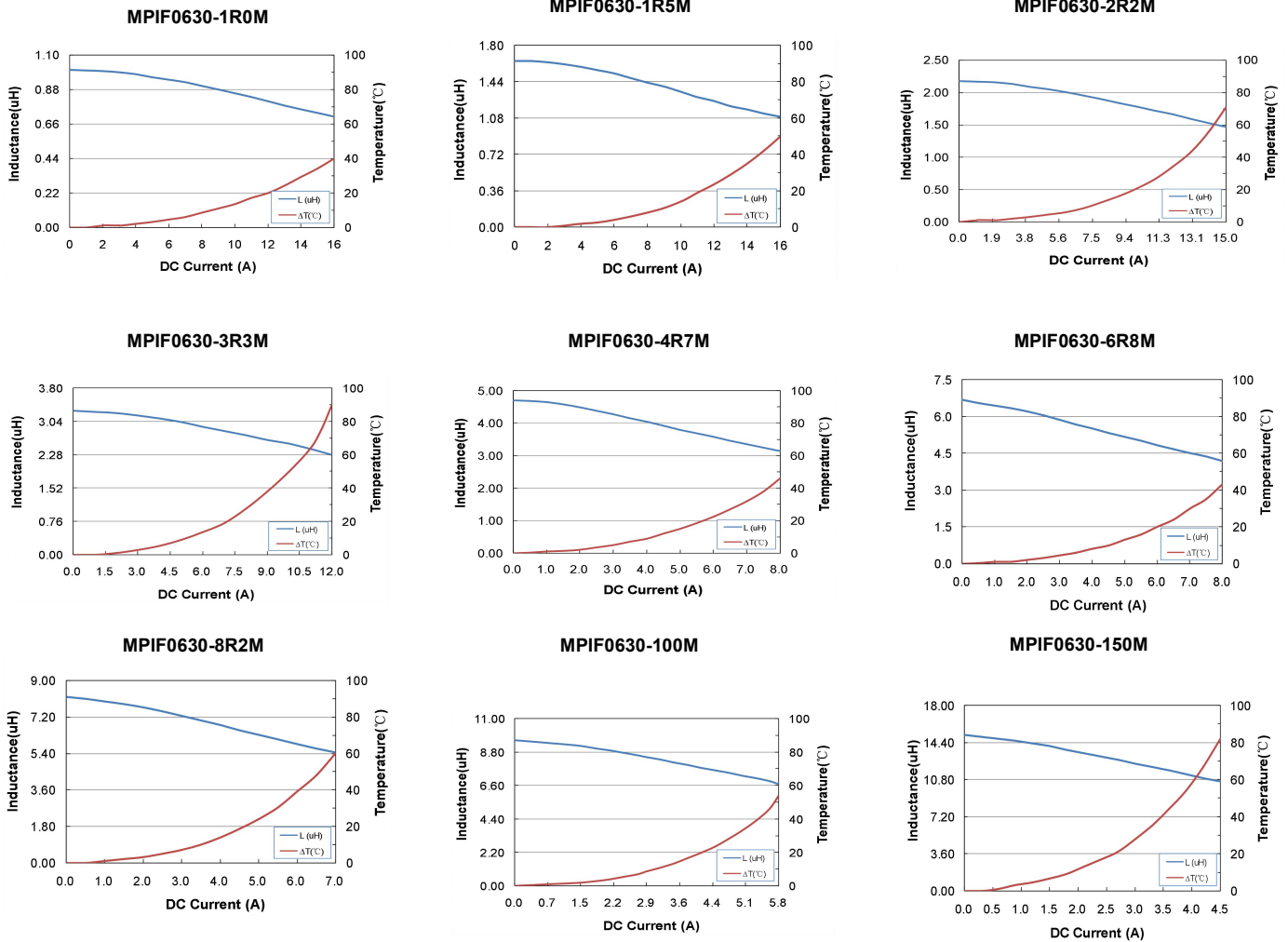
### Test equipments:

- L test by Hioki IM3536 LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at  $25^\circ\text{C}$ .

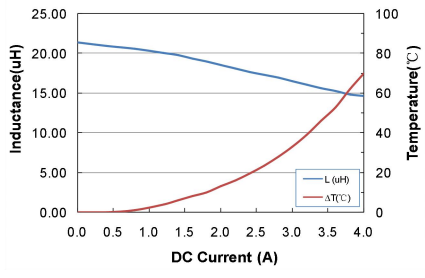
● **SMMS0630 series**

Part No.	Inductance @100kHz $L_0$ (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.
		Typical	Maximum		
SMMS0630-R15M	0.15	1.55	2.30	41.0	30.0
SMMS0630-R22M	0.22	1.60	2.50	35.0	25.0
SMMS0630-R47M	0.47	4.00	4.50	20.0	18.0
SMMS0630-R68M	0.68	4.75	5.30	19.0	16.0
SMMS0630-1R0M	1.0	6.60	7.25	15.5	13.0
SMMS0630-1R5M	1.5	13.2	16.0	18.0	12.5
SMMS0630-2R2M	2.2	16.5	20.0	14.0	8.50
SMMS0630-3R3M	3.3	24.5	35.0	12.0	7.00
SMMS0630-4R7M	4.7	35.0	40.0	9.00	6.00
SMMS0630-5R6M	5.6	36.0	42.0	7.00	5.70
SMMS0630-6R8M	6.8	44.3	48.0	6.00	5.10
SMMS0630-8R2M	8.2	60.0	64.9	6.00	5.00
SMMS0630-100M	10.0	64.5	68.0	5.50	4.59
SMMS0630-150M	15.0	103.0	112.0	4.60	3.10
SMMS0630-220M	22.0	126.0	135.0	3.50	2.60

**Typical performance curves :**



### MPIF0630-220M



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