SPECIFICATION FOR APPROVAL

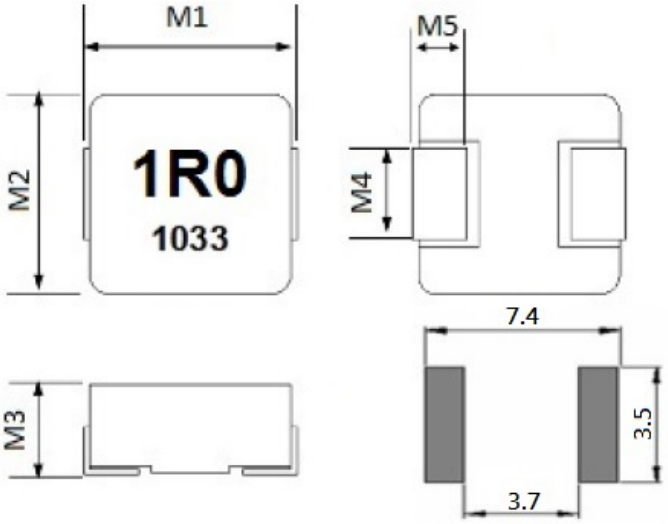
※This is a RoHS and REACH compliant product whose related documents are available on request.
※Graphic is only for dimensionally application.

1. PART NUMBERING IDENTIFICATION

MCS 0630- □□□ □ □□

Control	(Control No:)
Tolerance	(M=±20%)
Inductance	(100=10μH)
Dimensions	(0630=7.4 x 6.6 x 3.0mm)
Product symbol	(Series No:)

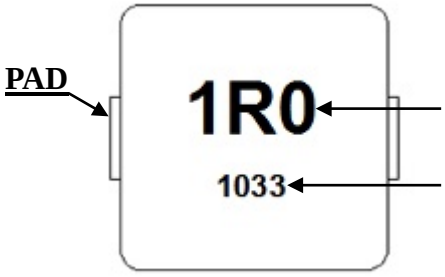
2. MECHANICAL DIMENSION



UNIT: mm

	DIM.	TOL.
M1	7.3	MAX.
M2	6.6	±0.2
M3	3.0	MAX.
M4	3.0	±0.3
M5	1.6	±0.3

3. MARKING AND DATE CODE



Marking Direction: PAD on the left and right sides, font facing up.
Example: 1R0 Stands for Marking➔1.0μH

10 33 Stands for Date Code
- Weekly (Week 33)
- Year (ex: 2010➔10)

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4. ELECTRICAL SPECIFICATION

Part number	Inductance (μH) ±20%	DC Resistance (mΩ) Typical	DC Resistance (mΩ) MAX.	Rated Current (A) Typical	I sat (A) Typical
MCS0630-R15MN2	0.15	2.0	2.5	27.0	45.0
MCS0630-R22MN2	0.22	2.5	2.8	23.0	40.0
MCS0630-R25MN2	0.25	2.5	2.8	22.0	35.0
MCS0630-R33MN2	0.33	3.5	3.9	20.0	30.0
MCS0630-R47MN2	0.47	4.0	4.2	17.5	26.0
MCS0630-R56MN2	0.56	4.7	5.0	16.5	25.5
MCS0630-R68MN2	0.68	5.0	5.5	15.5	25.0
MCS0630-R82MN2	0.82	6.7	8.0	13.0	20.0
MCS0630-1R0MN2	1.0	9.0	10.0	11.0	20.0
MCS0630-1R5MN2	1.5	14.0	15.0	9.5	18.0
MCS0630-2R2MN2	2.2	17.0	20.0	8.0	12.0
MCS0630-3R3MN2	3.3	28.0	30.0	6.0	10.0
MCS0630-4R7MN2	4.7	37.0	40.0	5.5	7.0
MCS0630-5R6MN2	5.6	52.0	60.0	4.8	6.0
MCS0630-6R8MN2	6.8	54.0	60.0	4.5	6.5
MCS0630-8R2MN1	8.2	54.0	60.0	4.5	6.0
MCS0630-100MN1	10.0	62.0	68.0	4.0	5.5

TEST INSTRUMENT: CHROMA 16502、Zentech1320+Zentech3305

NOTE:

1. **Test Freq.: 100KHz, 1.0V**
2. **All test data is referenced to 25℃ ambient.**
3. **Operating Temperature Range -25℃~+125℃.**
4. **Storage Temperature Range: -20℃~+40℃(<60% R.H.).**
5. **Rated Current: DC current (A) that will cause an approximate ΔT of 40℃.**
6. **I sat: DC current (A) that will cause Lo to drop approximately 30%.**
7. **The part temperature(ambient +temp rise)should not exceed 125℃ under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature Part temperature should be verified.**
8. **MSL: Level 1**

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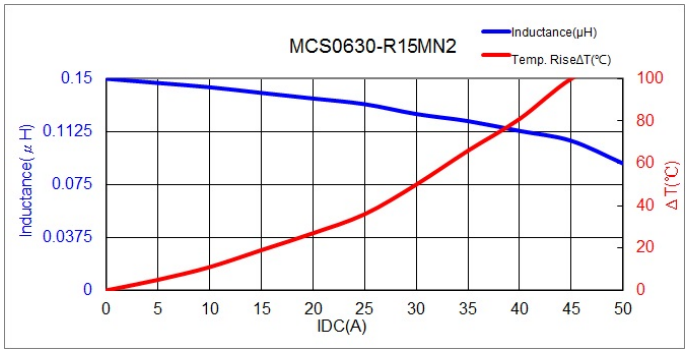
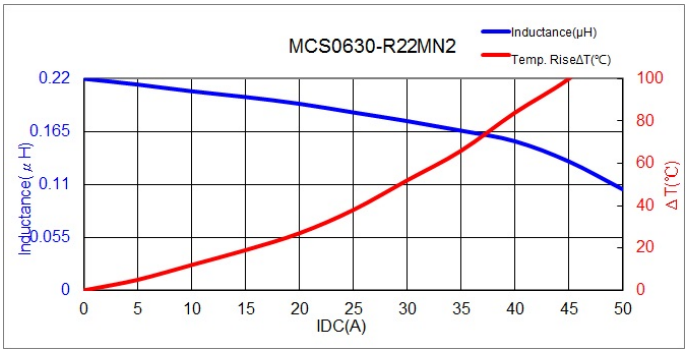
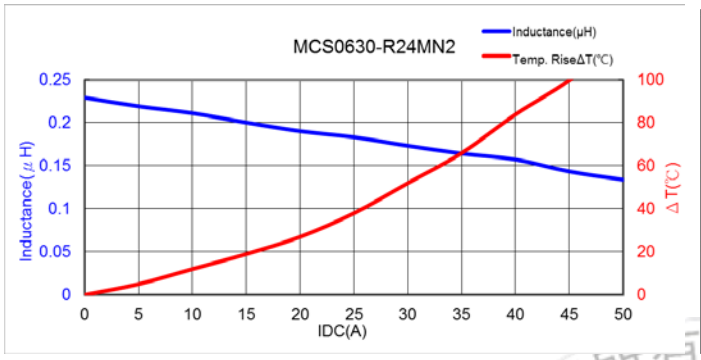
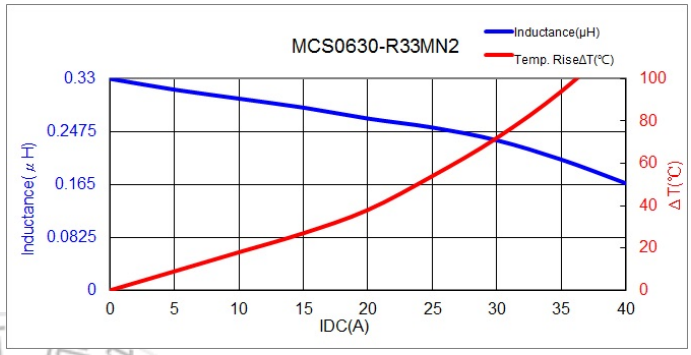
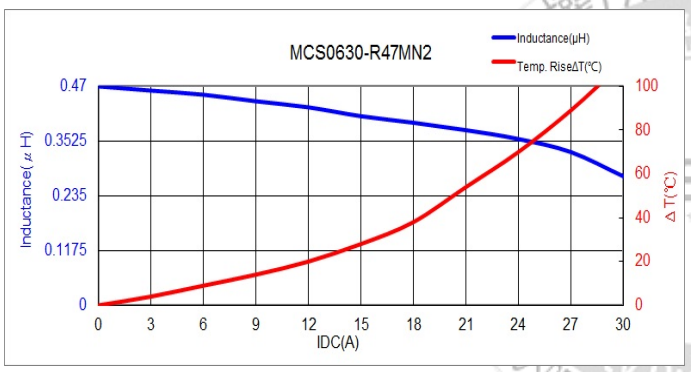
5. ELECTRICAL CURVE

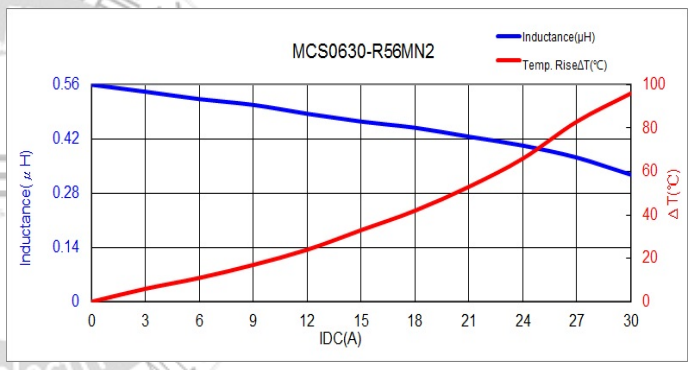


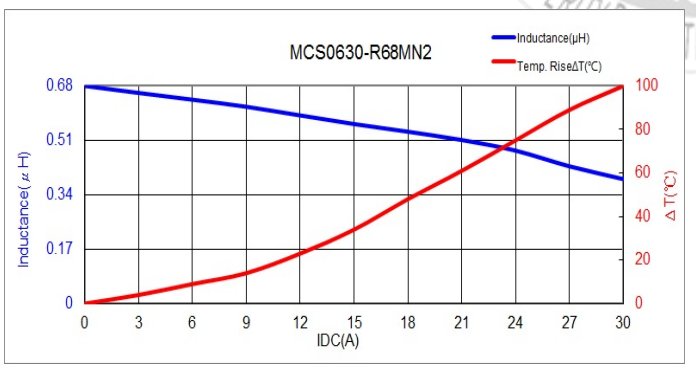


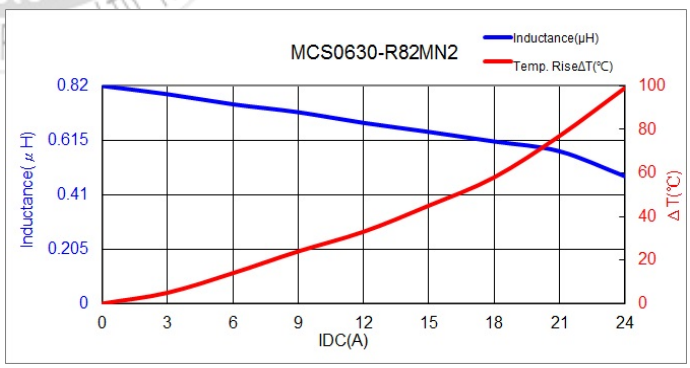


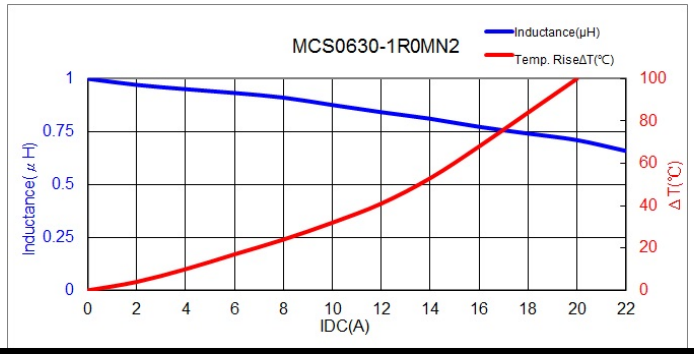












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