

SPECIFICATION FOR APPROVAL

※This is a RoHS and REACH compliant product whose related documents are available on request.

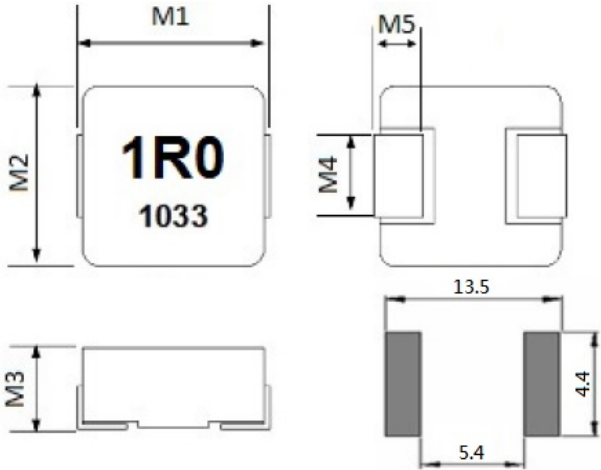
※Graphic is only for dimensionally application.

1. PART NUMBERING IDENTIFICATION

MCS 1040-□□□ □□□



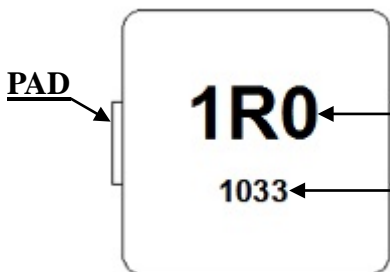
2. MECHANICAL DIMENSION



UNIT: mm

	DIM.	TOL.
M1	11.0	±0.5
M2	10.0	±0.3
M3	4.0	MAX.
M4	3.0	±0.5
M5	2.0	±0.5

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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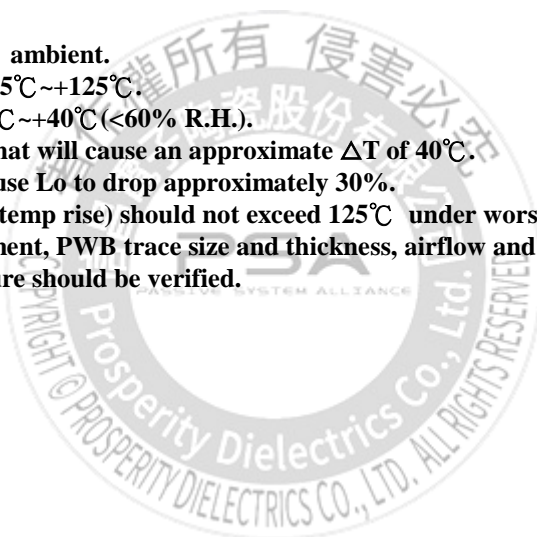
4. ELECTRICAL SPECIFICATION

Part number	Inductance (uH) ±20%	DC Resistance (mΩ) Typical	DC Resistance (mΩ) MAX.	Rated Current (A) Typical	I sat (A) Typical
MCS1040-R36MN1	0.36	1.1	1.2	34.0	40.0
MCS1040-R56MN1	0.56	1.6	1.8	25.0	32.0
MCS1040-1R0MN1	1.0	3.0	3.3	18.0	28.0
MCS1040-1R5MN1	1.5	3.8	4.2	16.0	21.0
MCS1040-2R2MN1	2.2	6.7	7.0	12.0	18.0
MCS1040-3R3MN1	3.3	10.8	11.8	10.0	16.0
MCS1040-4R7MN1	4.7	17.0	20.0	8.5	15.0
MCS1040-6R8MN1	6.8	22.5	25.0	7.0	12.0
MCS1040-8R2MN1	8.2	26.0	29.0	7.0	9.0
MCS1040-100MN1	10	27.0	30.0	7.5	8.5
MCS1040-150MCC	15	40.0	45.0	6.25	7.0
MCS1040-220MCC	22	60.0	66.0	5.0	5.5
MCS1040-470MCC	47	130.0	145.0	3.3	3.5
MCS1040-680MN2	68	190.0	200.0	3.5	2.6

TEST INSTRUMENT: CHROMA 16502 、Zentech1320+Zentech3305

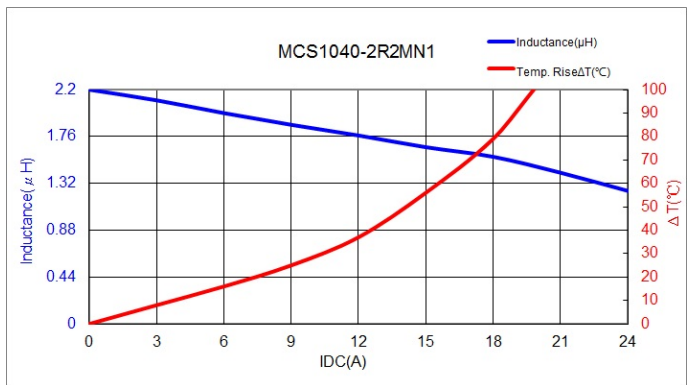
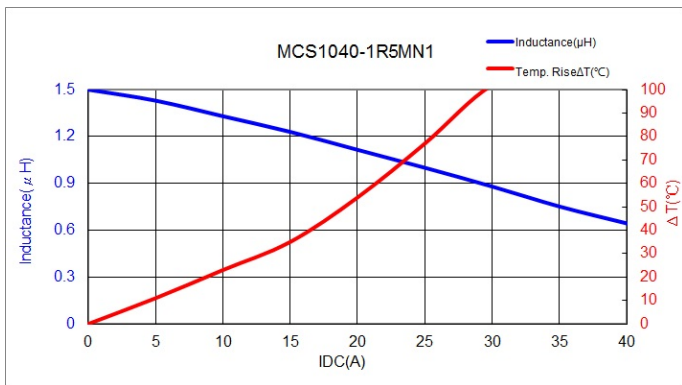
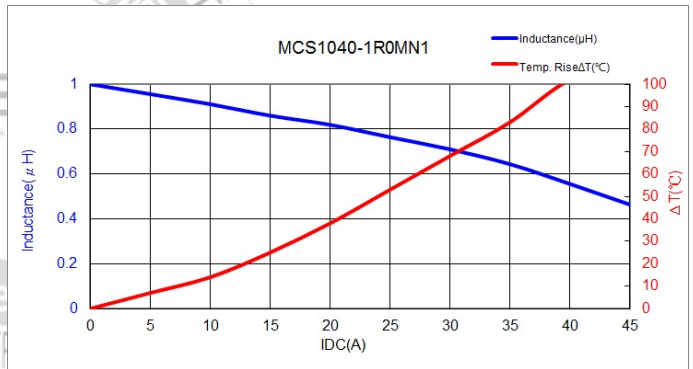
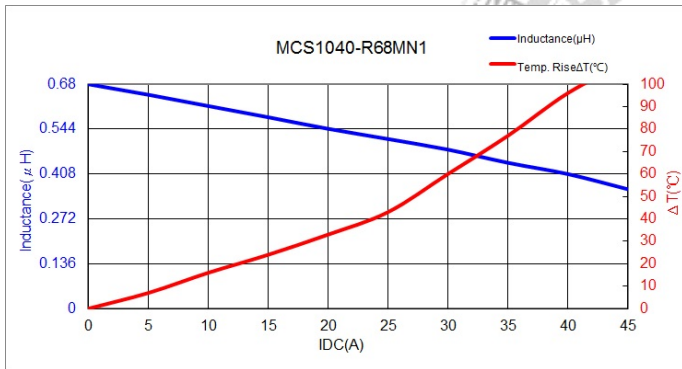
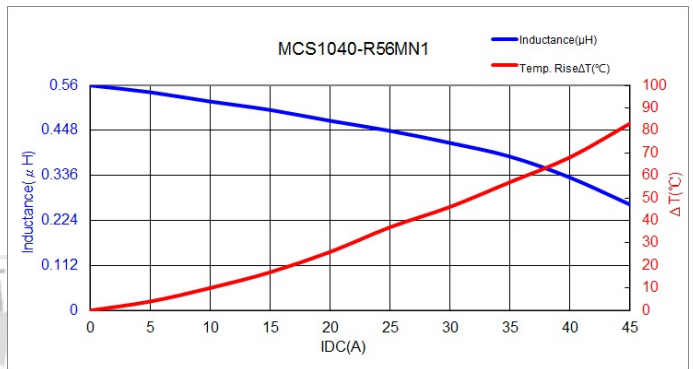
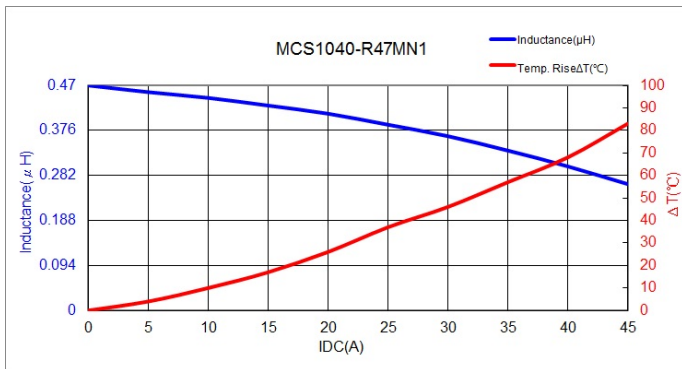
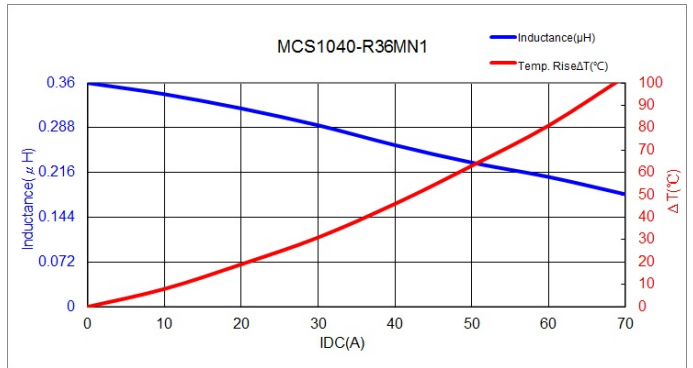
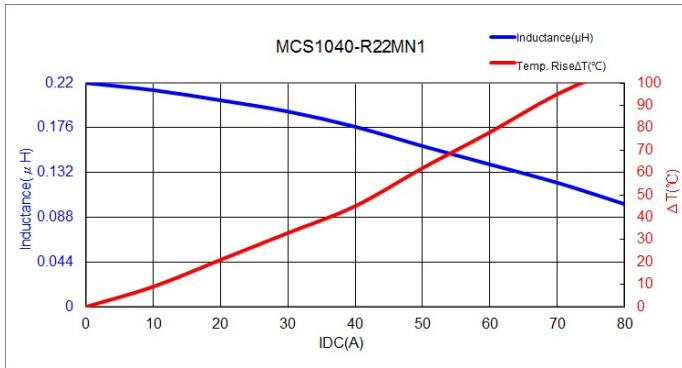
NOTE:

1. Test Freq.: 100KHz, 1.0V
2. All test data is referenced to 25°C ambient.
3. Operating Temperature Range -25°C~+125°C.
4. Storage Temperature Range: -20°C~+40°C(<60% R.H.).
5. Rated Current: DC current (A) that will cause an approximate ΔT of 40°C.
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°C under worst case operating conditions.
8. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature Part temperature should be verified.
9. MSL: Level 1

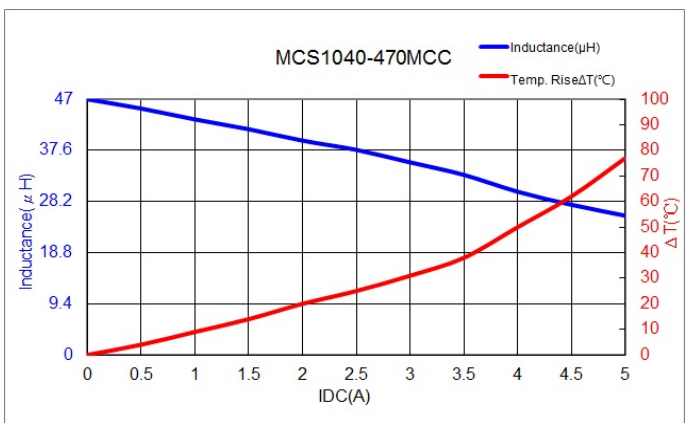
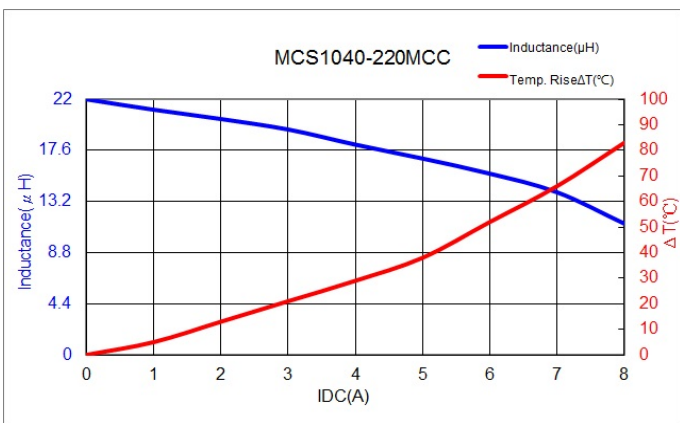
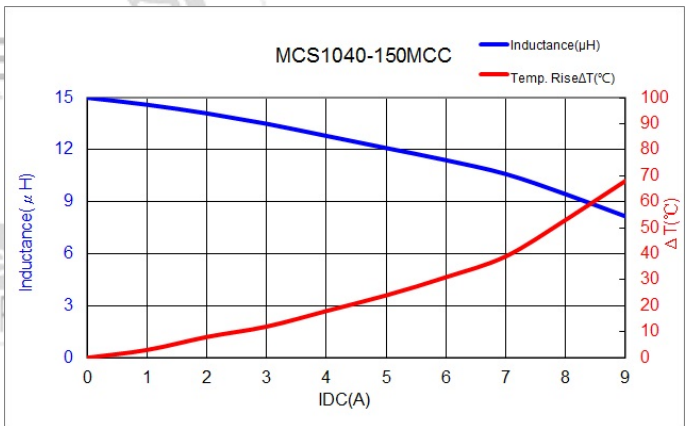
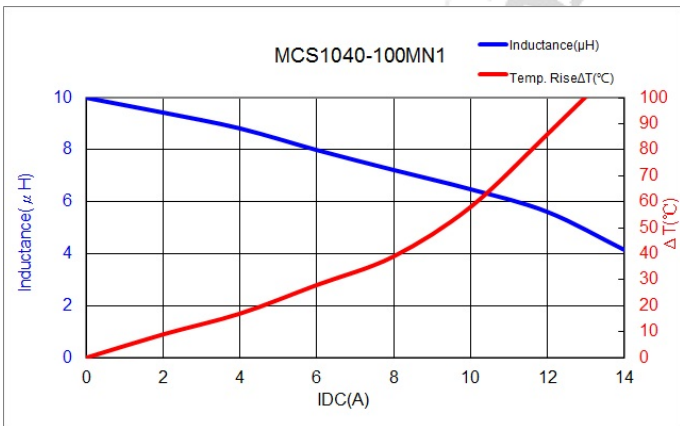
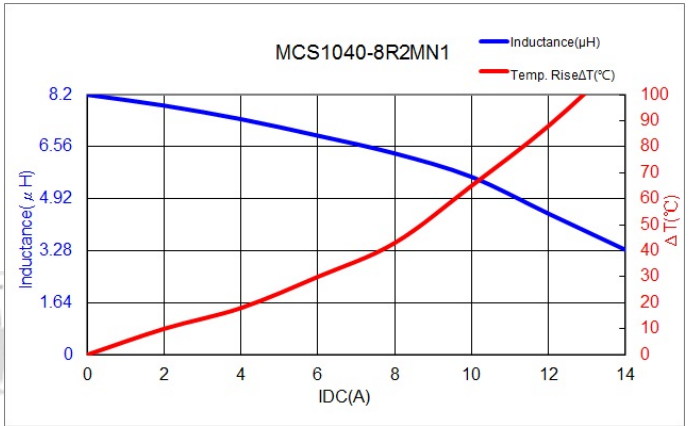
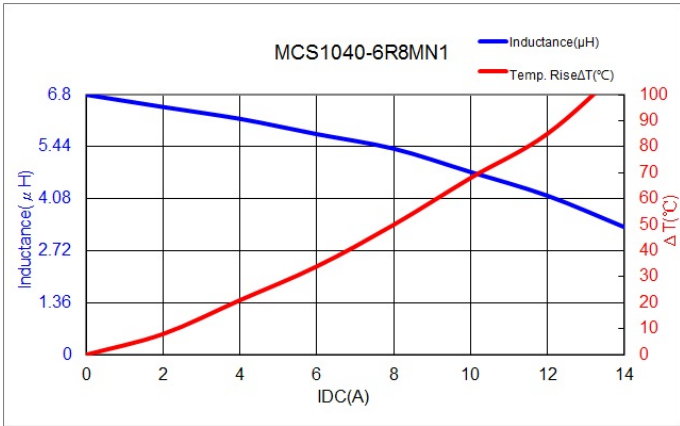
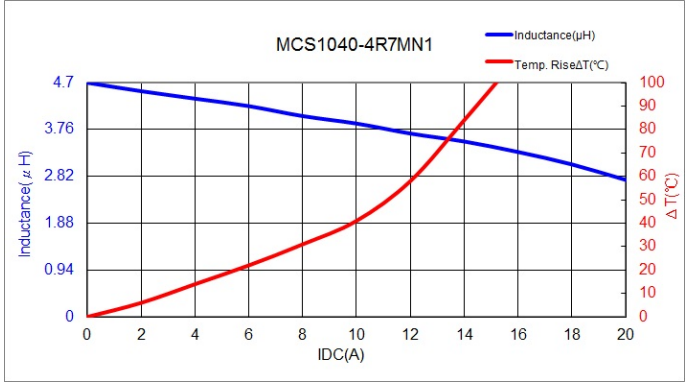
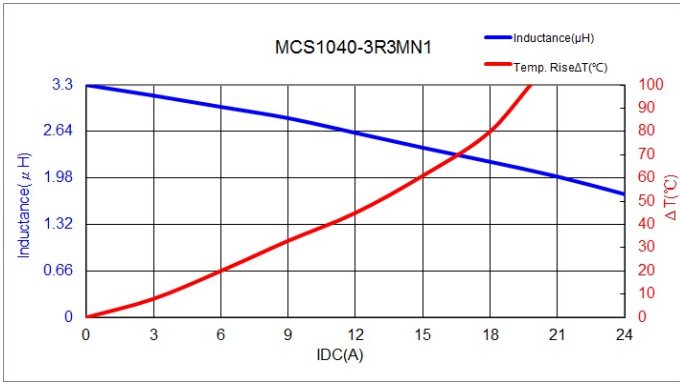


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5. ELECTRICAL CURVE



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