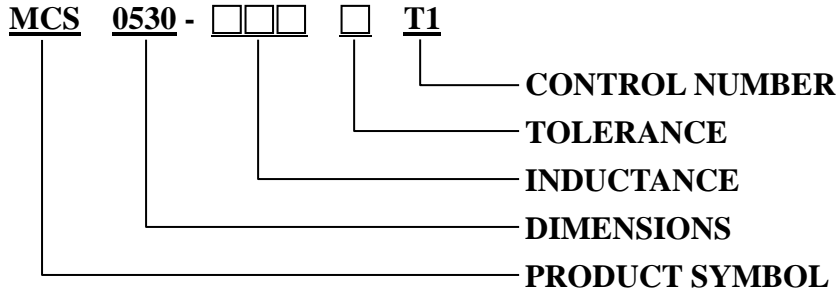


# SPECIFICATION FOR APPROVAL

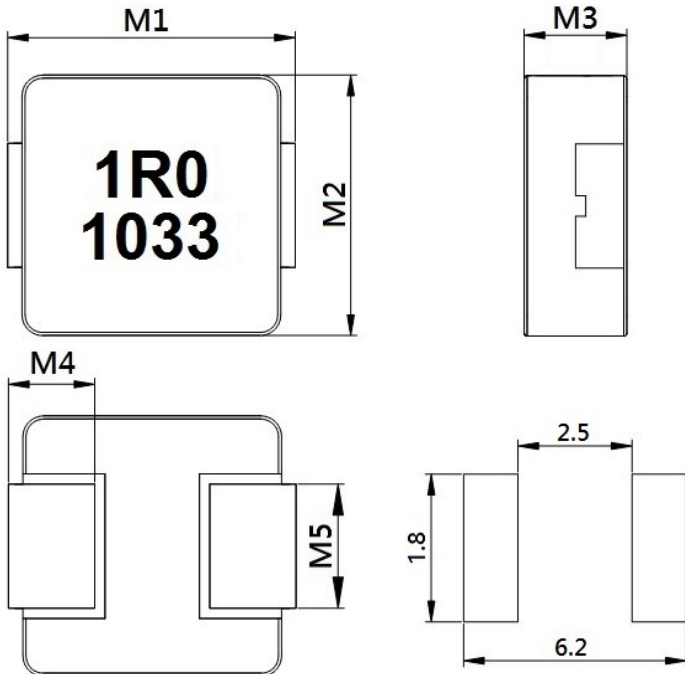
※This is a RoHS and REACH compliant product whose related documents are available on request.

※Graphic is only for dimensionally application.

## 1. PART NUMBERING IDENTIFICATION



## 2. MECHANICAL DIMENSION

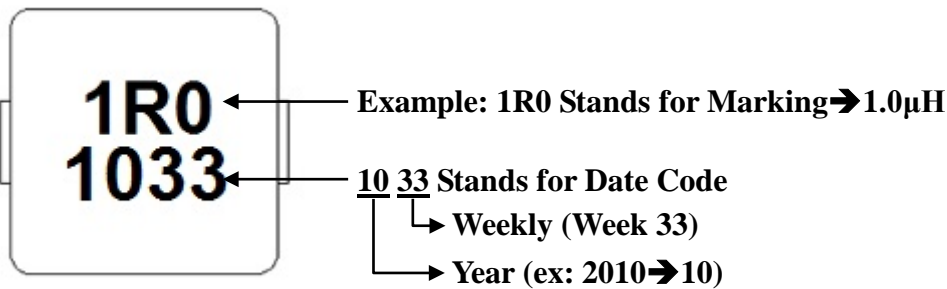


UNIT: mm

	DIM.	TOL.
M1	5.7	±0.3
M2	5.2	±0.2
M3	2.8	±0.2
M4	1.1	±0.3
M5	1.5	±0.2

Recommended Patterns

## 3. MARKING AND DATE CODE



# SPECIFICATION FOR APPROVAL

## 4. ELECTRICAL SPECIFICATION

Part number	Inductance ( $\mu$ H)	DC Resistance (m $\Omega$ ) Typical	DC Resistance (m $\Omega$ ) MAX.	I rms (A) Typical	I rms (A) MAX.	I sat (A) Typical	I sat (A) MAX.
MCS0530-R10NT1	0.10	2.5	3.0	23.0	20.0	27.0	24.0
MCS0530-R20□T1	0.20	2.6	3.2	16.0	14.0	25.0	21.0
MCS0530-R22MT1	0.22	3.7	4.4	15.5	13.0	21.0	19.0
MCS0530-R33MT1	0.33	4.3	5.0	14.0	11.0	18.0	16.0
MCS0530-R47MT1	0.47	6.4	7.4	12.0	10.0	16.0	14.0
MCS0530-R56MT1	0.56	8.0	10	10.0	9.0	15.0	13.5
MCS0530-R68MT1	0.68	10	12	8.5	7.5	14.0	12.5
MCS0530-1R0MT1	1.00	13	14	7.0	6.0	11.0	9.5
MCS0530-1R2MT1	1.20	14	16	6.5	5.5	11.0	9.5
MCS0530-1R5MT1	1.50	16	25	6.0	5.0	10.0	9.0
MCS0530-2R2MT1	2.20	25	35	5.5	4.8	9.0	8.0
MCS0530-3R3MT1	3.30	32	38	5.0	4.3	8.0	7.0
MCS0530-4R7MT1	4.70	50	53	4.6	4.0	6.0	5.0
MCS0530-5R6MT1	5.60	55	63	4.25	3.8	4.5	4.0
MCS0530-6R8MT1	6.80	68	76.2	4.0	3.6	4.3	3.8
MCS0530-100MT1	10.0	110	128	2.75	2.4	3.5	3.1
MCS0530-150MT1	15.0	165	190	2.1	1.9	2.6	2.2
MCS0530-180MT1	18.0	195	230	2.0	1.8	2.3	2.0
MCS0530-220MT1	22.0	220	250	1.9	1.7	1.7	1.5
MCS0530-330MT1	33.0	380	440	1.6	1.5	1.6	1.4

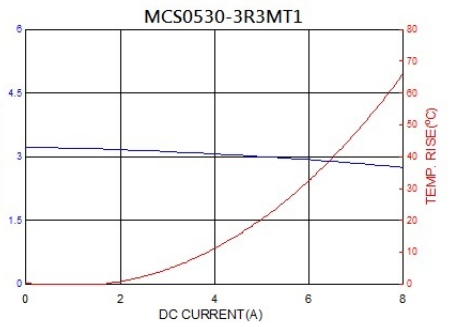
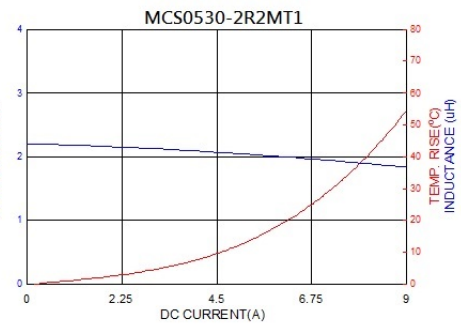
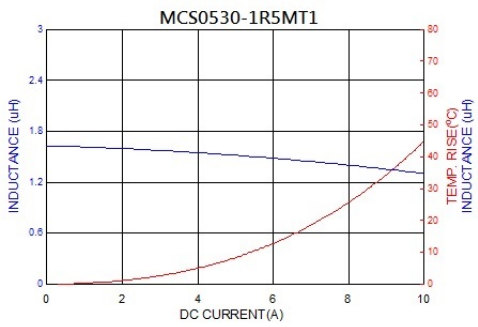
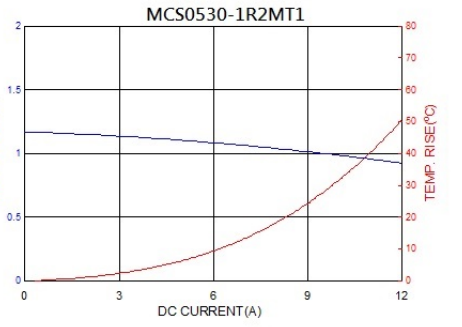
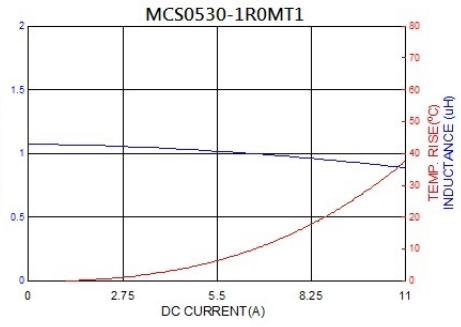
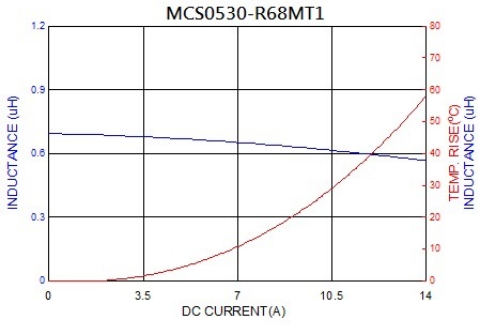
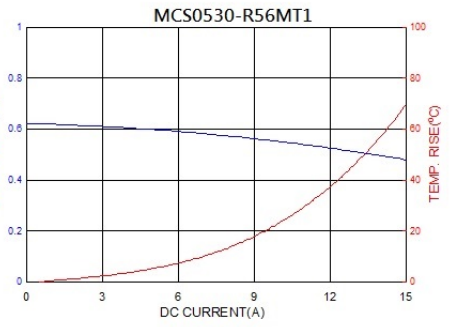
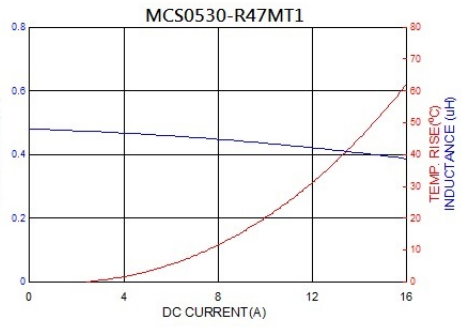
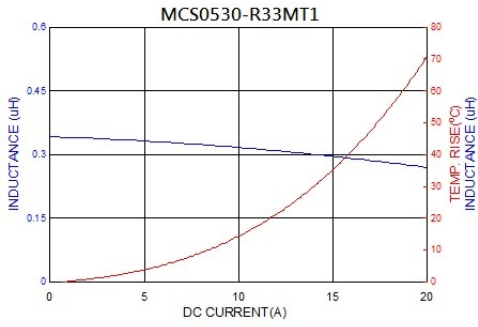
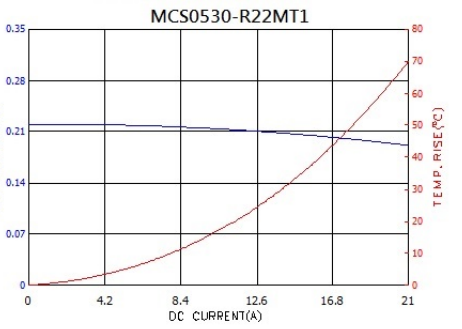
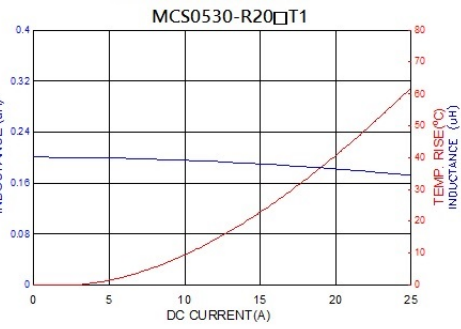
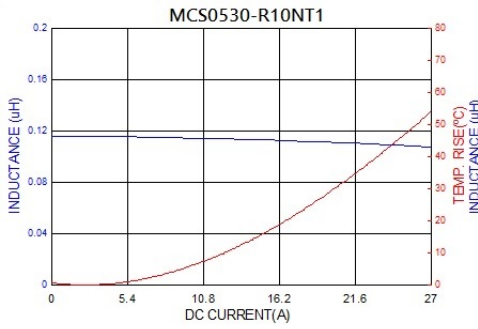
□Tolerance: M:±20%, N:±30%

Note:

1. Test frequency: 100KHz/1.0V
2. Operating temperature: -40~+125°C (Including self - temperature rise)
3. Storage temperature:
  - 3-1. -10~+40°C, 50~60% RH (Product with taping)
  - 3-2. -40~+125°C (on board)
4. All test data referenced to 25°C ambient
5. Testing Instrument: Inductance: HP4284A, CH11025, CH3302, CH1320, CH1320S LCR Meter / DC Resistance: CH16502, Agilent33420A Micro ohm meter
6. Heat Rated Current (I rms) will cause the coil temperature rise approximately  $\Delta t$  of 40°C
7. Saturation Current (I sat) will cause L0 to drop approximately 30%
8. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application
9. MSL: Level 1

# SPECIFICATION FOR APPROVAL

## 5. ELECTRICAL CURVE



# SPECIFICATION FOR APPROVAL

