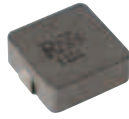


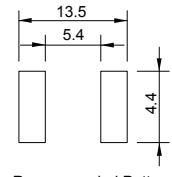
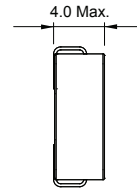
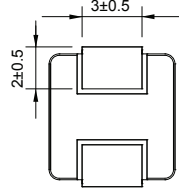
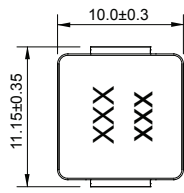
# MCS1040 Series (SHIELDED)

## High Current Molding Power Choke

### MECHANICAL DIMENSIONS



MCS1040



Recommended Patterns

unit: mm

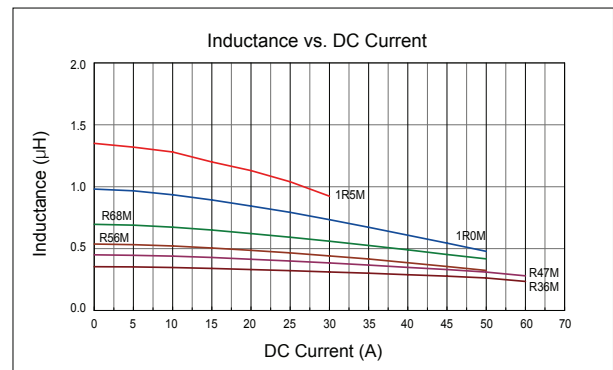
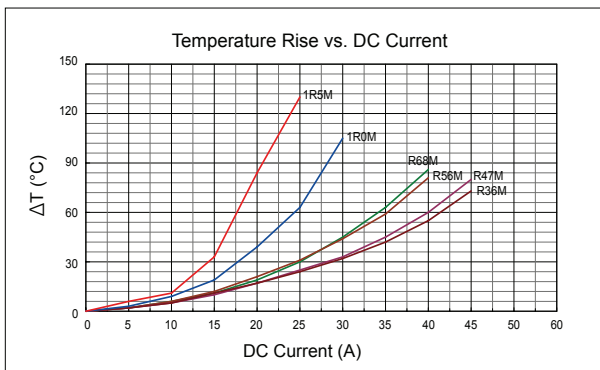
### ELECTRICAL SPECIFICATION

Part Number	Marking	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Typ.	DCR (mΩ) Max.	Rated Current (A) Typ.	Isat (A) Typ.
MCS1040-R22MN1	R22	0.22	M	100	0.80	1.00	35.0	50.0
MCS1040-R36MN1	R36	0.36	M	100	1.10	1.20	34.0	40.0
MCS1040-R47MN1	R47	0.47	M	100	1.30	1.55	25.0	35.0
MCS1040-R56MN1	R56	0.56	M	100	1.60	1.80	25.0	32.0
MCS1040-R68MN1	R68	0.68	M	100	2.40	2.70	22.0	30.0
MCS1040-1R0MN1	1R0	1.00	M	100	3.00	3.30	18.0	28.0
MCS1040-1R5MN1	1R5	1.50	M	100	3.80	4.20	16.0	21.0
MCS1040-2R2MN1	2R2	2.20	M	100	6.70	7.00	12.0	18.0
MCS1040-3R3MN1	3R3	3.30	M	100	10.8	11.8	10.0	16.0
MCS1040-4R7MN1	4R7	4.70	M	100	17.0	20.0	8.50	15.0
MCS1040-6R8MN1	6R8	6.80	M	100	22.5	25.0	6.50	9.00
MCS1040-100MN1	100	10.0	M	100	27.0	30.0	7.50	8.50
MCS1040-150MCC	150	15.0	M	100	40.0	45.0	6.25	7.00
MCS1040-220MCC	220	22.0	M	100	60.0	66.0	5.00	5.50
MCS1040-330MCC	330	33.0	M	100	85.0	92.0	4.40	5.00
MCS1040-470MCC	470	47.0	M	100	130.0	145.0	3.30	3.50

- Tolerance: M= ±20% ; N= ±30%
- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +125°C
- Rated current (A) that will cause an approximate Δ T of 40°C
- Isat (A) that will cause Lo to drop approximately 30%
- The part temperature (ambient + temp rise) should not exceed 125°C 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 in the end application.
- Test Instrument: Chroma16502, Chroma11300

### CHARACTERISTIC CURVE

#### MCS1040 Series



SMD  
Leaded