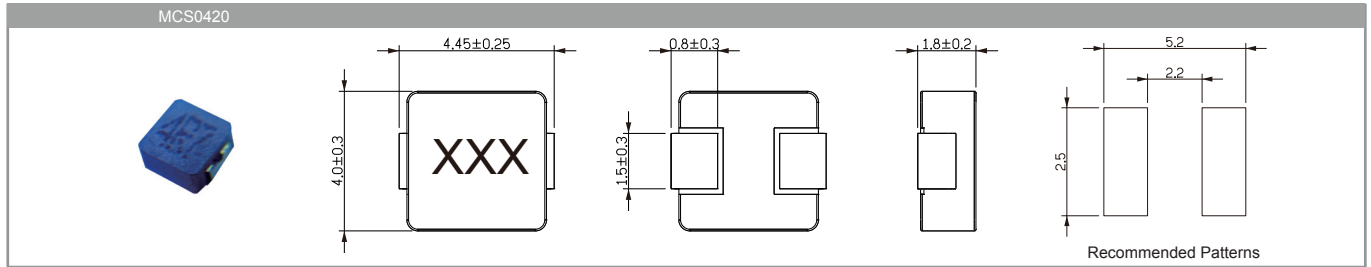


HIGH CURRENT MOLDING POWER CHOKE

MCS0420 Series (SHIELDED)

Mechanical Dimensions (Unit: mm)



Electrical Specification

Part Number	Marking	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Typical	DCR (mΩ) Max.	Rated Current (A) Typical	I sat (A) Typical
MCS0420-R47MN2	R47	0.47	M	100	12.5	14.0	7.0	9.5
MCS0420-1R0MN2	1R0	1.0	M	100	24.0	27.0	4.5	7.0
MCS0420-1R5MN2	1R5	1.5	M	100	38.0	46.0	4.0	6.0
MCS0420-2R2MN2	2R2	2.2	M	100	52.0	58.0	3.0	5.0
MCS0420-3R3MN2	3R3	3.3	M	100	74.0	87.0	2.5	4.0
MCS0420-4R7MN2	4R7	4.7	M	100	92.0	105.0	2.2	3.0
MCS0420-6R8MN2	6R8	6.8	M	100	162.0	178.0	2.0	2.1

- a. Tolerance: M=±20%,N=±30%
- b. All test data is referenced to 25°C ambient.
- c. Operating Temperature Range -55°C to +125°C .
- d. Rated current (A) that will cause an approximate ΔT of 40°C .
- e. Isat (A) that will cause Lo to drop approximately 30%.

- f. 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.
- g. Test Instrument: Chroma16502 - Chroma11300.

Characteristic Curve

• MCS0420

