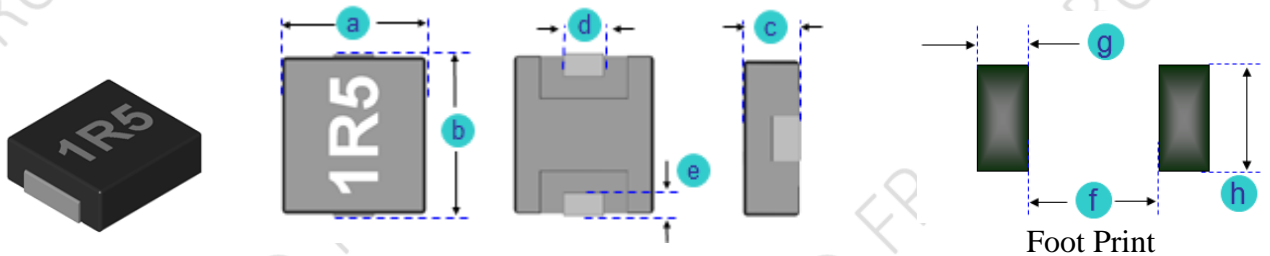


A. Electrical Specifications:

P/N	L (uH)	Tol.	Mark	Test Freq. (KHz)	DCR Typ. (mΩ)	DCR Max. (mΩ)	I sat. Typ. (A)	I rated Typ. (A)
MCS0630-R22MN2	0.22	M	R22	100	2.50	2.80	40.0	23.0
MCS0630-R33MN2	0.33	M	R33	100	3.50	3.90	30.0	20.0
MCS0630-R47MN2	0.47	M	R47	100	4.00	4.20	26.5	17.5
MCS0630-R56MN2	0.56	M	R56	100	4.70	5.00	25.5	16.5
MCS0630-R68MN2	0.68	M	R68	100	5.00	5.50	25.0	15.5
MCS0630-R82MN2	0.82	M	R82	100	6.70	8.00	20.0	13.0
MCS0630-1R0MN2	1.00	M	1R0	100	9.00	10.0	20.0	11.0
MCS0630-1R5MN2	1.50	M	1R5	100	14.0	15.0	16.0	9.00
MCS0630-2R2MN2	2.20	M	2R2	100	17.0	20.0	12.0	8.00
MCS0630-3R3MN2	3.30	M	3R3	100	28.0	30.0	10.0	6.00
MCS0630-4R7MN2	4.70	M	4R7	100	37.0	40.0	7.00	5.50
MCS0630-6R8MN2	6.80	M	6R8	100	54.0	60.0	6.50	4.50
MCS0630-8R2MN2	8.20	M	8R2	100	54.0	60.0	6.50	4.50
MCS0630-100MN1	10.00	M	100	100	62.0	68.0	5.50	4.00

B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g	h
MCS0630	6.6 (0.260)	7.3 (0.287)	3 (0.118)	3 (0.118)	1.5 (0.059)	3.7 (0.146)	1.85 (0.073)	3.5 (0.138)
Tol.	±0.2 (0.008)	Max	Max.	±0.3 (0.012)	±.5 (0.020)	Typ.	Typ.	Typ.



C. General Information:

1. MCS0630-xxxMN2, "MCS0630" = P/N, "xxx" = Inductance, "-" = Tolerance: M: ± 20%, "N2" = Internal control code
2. Tolerance "-": M: ± 20%
3. Magnetically shielded
4. High saturation current
5. Operating temperature: -55°C to +125°C
6. All test data is referenced to 25°C ambient.
7. Rated current (A) that will cause an approximate ΔT of 40°C.
8. I sat (A) that will cause Lo to drop approximately 20%.
9. The part temperature (ambient + self 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 which should be verified in the end applications.
10. Test Instrument: Chroma16502, Chroma11300.
11. Inductance and Current Range: From 0.22 uH (23.0 A) to 10 uH (4.0 A)
12. Unspecified values available on request.
13. MSL: Level 1



MCS0630 Series – SMD MOLDED HIGH CURRENT POWER INDUCTORS (SHIELDED)

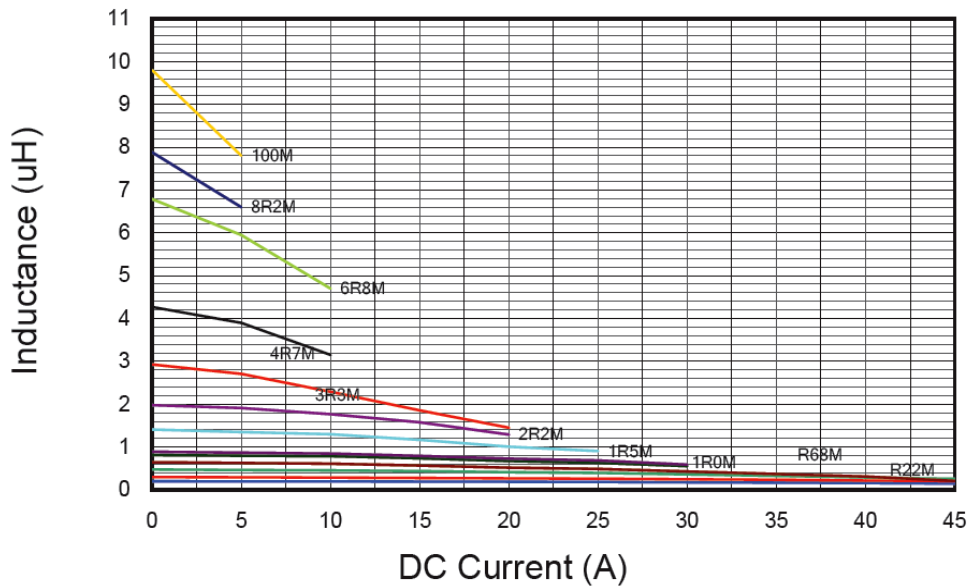
Rev. A

D. Applications:

1. Game Consoles
2. Set Top Boxes
3. Cables Modems
4. Computers
5. Mobile Communication Devices (Cell Phones, Radios, etc.)
6. PDA, LCD, DVD, BRP, HD.

E. Characteristics Curve:

Inductance vs. DC Current



Temperature Rise vs. DC Current

