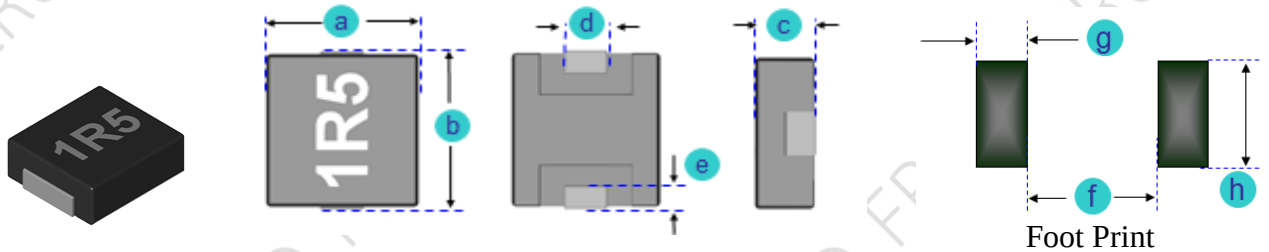


A. Electrical Specifications:

P/N	L (uH)	Tol.	Mark	Test Freq. (KHz)	DCR Typ. (mΩ)	DCR Max. (mΩ)	I sat. Typ. (A)	I rated Typ. (A)
MCS1040-R22M	0.22	M	R22	100	0.80	1.00	35.0	50.0
MCS1040-R36M	0.36	M	R36	100	1.10	1.20	40.0	34.0
MCS1040-R47M	0.47	M	R47	100	1.30	1.55	35.0	25.0
MCS1040-R56M	0.56	M	R56	100	1.60	1.80	32.0	25.0
MCS1040-R68M	0.68	M	R68	100	2.40	2.70	30.0	22.0
MCS1040-1R0M	1.00	M	1R0	100	3.00	3.30	28.0	18.0
MCS1040-1R5M	1.50	M	1R5	100	3.80	4.20	21.0	16.0
MCS1040-2R2M	2.20	M	2R2	100	6.70	7.00	12.0	27.0
MCS1040-3R3M	3.30	M	3R3	100	10.8	11.8	10.0	16.0
MCS1040-4R7M	4.70	M	4R7	100	17.0	20.0	8.50	15.0
MCS1040-6R8M	6.80	M	6R8	100	22.5	25.0	6.50	9.00
MCS1040-100M	10.0	M	100	100	27.0	30.0	7.50	8.50
MCS1040-150M	15.0	M	150	100	40.0	45.0	6.25	7.00
MCS1040-220M	22.0	M	220	100	60.0	66.0	5.00	5.50
MCS1040-330M	33.0	M	330	100	85.0	92.0	4.40	5.00
MCS1040-470M	47.0	M	470	100	130	145	3.30	3.50

B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g	h
MCS1040	10 (0.394)	11.15 (0.439)	4.0 (0.157)	3.0 (0.118)	2.0 (0.079)	5.4 (0.213)	4.05 (0.159)	4.4 (0.173)
Tol.	±0.3 (0.012)	±0.35 (0.014)	Max.	±0.5 (0.020)	±.5 (0.020)	Typ.	Typ.	Typ.



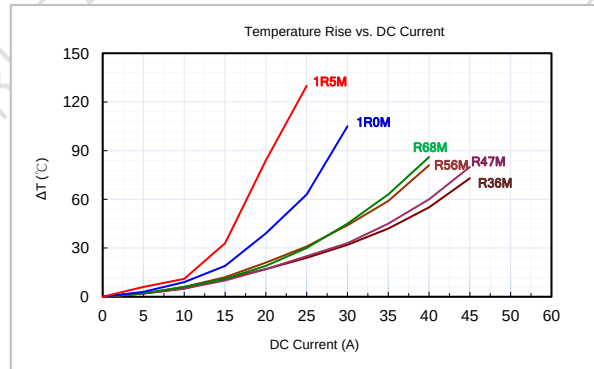
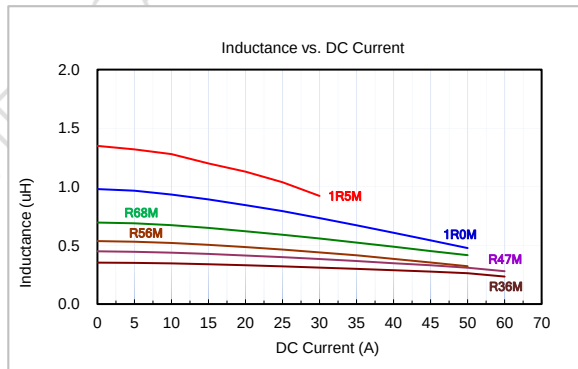
C. General Information:

1. MCS1040-xxx_, "MCS1040" = P/N, "xxx" = Inductance, "_" = Tolerance.
2. Tolerance "_": M = ± 20%.
3. Magnetically shielded
4. High saturation current
5. Test Freq: 100KHz, 0.5V
6. Operating temperature: -55°C to +125°C
7. All test data is referenced to 25°C ambient.
8. Rated current (A) that will cause an approximate ΔT of 40°C.
9. I sat (A) that will cause Lo to drop approximately 20%.
10. 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.
11. Test Instrument: Chroma16502, Chroma11300.
12. Inductance and Current Range: From 0.36 uH (34 A) to 1.5 uH (16 A)
13. Unspecified values available on request.
14. MSL: Level 1.

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.

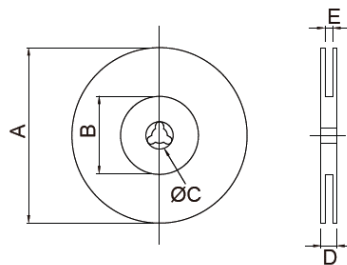
E. Characteristics Curve:



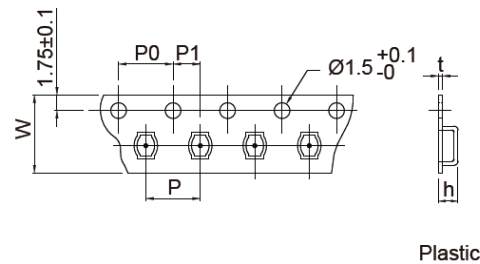
F. Supplementary Information:

1. Packaging Information

CARRIER TAPE REELS



TAPE DIMENSIONS (mm)



Plastic

Series P/N	Reel dimensions (mm)					Tape dimensions (mm)						Parts per reel		Quantity per	
	A	B	C	D	E	W	P	P0	P1	h	t	7"	13"	Box	Carton
MCS1040	340	100	13	29.2	24.6	24	16	4	2	4.25	0.40	---	500	500	3,000

2. RoHS Reflow Solder Profile

Typical RoHS Reflow Profile

