



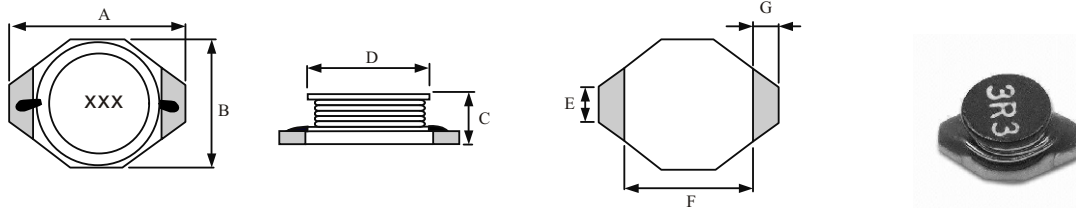
### Features

- Open magnetic circuit construction.
- High Current, Low DCR.

### Applications

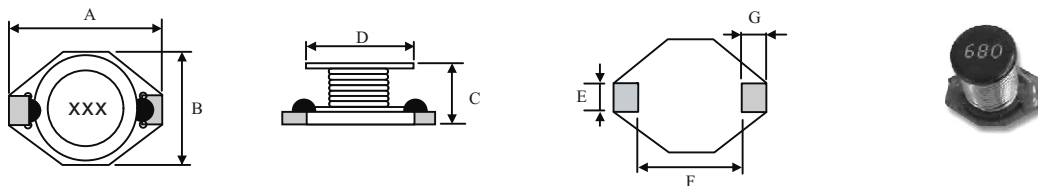
- Notebook, Cellular Phone.
- DC/DC converter, PDA.

## ► Dimensions & Configurations (Unit:mm)



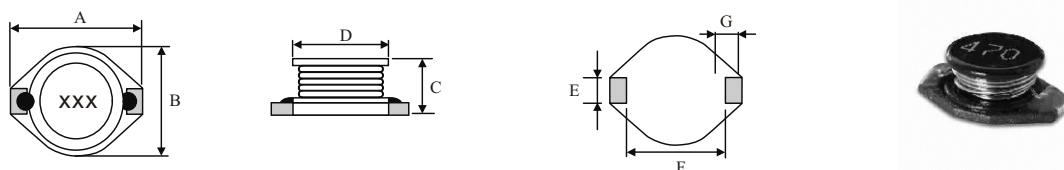
Type	A (max)	B (max)	C	D (max)	E (Ref)	F (Ref)	G (Ref)
MSP1608	6.6	4.5	2.9	3.9	1.27	4.32	1.02

## ► Dimensions & Configurations (Unit:mm)



Type	A (max)	B (max)	C	D (max)	E (Ref)	F (Ref)	G (Ref)
MSP1813	8.89	6.10	4.70	4.80	3.00	5.00	1.18
MSP3308	12.95	9.40	3.00	8.38	2.54	7.62	2.54
MSP3316	12.95	9.40	5.21	8.38	2.54	7.62	2.54
MSP3340	12.95	9.40	11.43	8.38	2.54	7.62	2.54

## ► Dimensions & Configurations (Unit:mm)



Type	A (max)	B (max)	C	D (max)	E (Ref)	F (Ref)	G (Ref)
MSP5022	18.54	15.24	7.11	12.7	2.54	12.7	2.54

## ▶ Electrical Characteristics For MSP1608 Series

Part Number	L [ $\mu$ H]	DCR(max) [m $\Omega$ ]	SRF(Typ) [MHz]	Isat [A]	Irms [A]
MSP1608 - 1R0M	1	50	130	2.9	2.9
MSP1608 - 1R5M	1.5	50	115	2.9	2.8
MSP1608 - 2R2M	2.2	70	100	2.3	2.4
MSP1608 - 3R3M	3.3	80	70	2.0	2.0
MSP1608 - 4R7M	4.7	90	50	1.5	1.5
MSP1608 - 6R8M	6.8	130	45	1.2	1.4
MSP1608 - 100M	10	160	35	1.2	1.2
MSP1608 - 150M	15	230	30	0.90	1.1
MSP1608 - 220M	22	370	20	0.70	0.8
MSP1608 - 330M	33	510	15	0.58	0.6
MSP1608 - 470M	47	640	14	0.50	0.5
MSP1608 - 680M	68	860	11	0.40	0.4
MSP1608 - 101M	100	1270	9	0.31	0.3
MSP1608 - 151M	150	2000	6	0.27	0.25
MSP1608 - 221M	220	2650	5.5	0.22	0.20
MSP1608 - 331M	330	3800	5	0.18	0.16
MSP1608 - 471M	470	5060	4	0.16	0.15
MSP1608 - 681M	680	9200	3	0.14	0.12
MSP1608 - 102M	1000	13800	2	0.10	0.07

## ▶ Electrical Characteristics For MSP1813 Series

Part Number	L [ $\mu$ H]	DCR(max) [m $\Omega$ ]	SRF(Typ) [MHz]	Isat [A]	Irms [A]
MSP1813 - R18M	0.18	7	800	14	10.0
MSP1813 - R33M	0.33	8	600	10	7.0
MSP1813 - R56M	0.56	10	200	7.7	6.0
MSP1813 - 1R2M	1.2	17	140	5.3	4.4
MSP1813 - 2R2M	2.2	35	100	3.5	3.1
MSP1813 - 3R3M	3.3	40	80	3.0	2.7
MSP1813 - 4R7M	4.7	64	50	2.6	2.2
MSP1813 - 6R8M	6.8	80	45	2.2	1.8
MSP1813 - 100M	10	111	40	1.9	1.5
MSP1813 - 150M	15	170	30	1.5	1.2
MSP1813 - 220M	22	250	25	1.2	1.0
MSP1813 - 330M	33	350	20	0.99	0.82
MSP1813 - 470M	47	470	15	0.87	0.72
MSP1813 - 680M	68	730	10	0.67	0.56
MSP1813 - 101M	100	1110	8	0.53	0.47

### ▶ Electrical Characteristics For MSP3308 Series

Part Number	L [ $\mu$ H]	DCR(max) [m $\Omega$ ]	SRF(Typ) [MHz]	Isat [A]	Irms [A]
MSP3308 - 100M	10	85	35	2.7	2.0
MSP3308 - 150M	15	120	33	2.3	1.5
MSP3308 - 220M	22	180	25	1.8	1.3
MSP3308 - 330M	33	250	19	1.6	1.1
MSP3308 - 470M	47	320	14	1.3	0.8
MSP3308 - 680M	68	540	12	1.1	0.7
MSP3308 - 101M	100	690	10	0.87	0.6
MSP3308 - 151M	150	940	8	0.74	0.5
MSP3308 - 221M	220	1600	6	0.56	0.4
MSP3308 - 331M	330	2150	5	0.50	0.3
MSP3308 - 471M	470	3300	4	0.40	0.2
MSP3308 - 681M	680	4400	3	0.33	0.1
MSP3308 - 102M	1000	7000	2.5	0.29	0.05

### ▶ Electrical Characteristics For MSP3316 Series

Part Number	L [ $\mu$ H]	DCR(max) [m $\Omega$ ]	SRF(Typ) [MHz]	Isat [A]	Irms [A]
MSP3316 - 1R0M	1	9	100	9.0	6.8
MSP3316 - 1R5M	1.5	10	90	8.0	6.4
MSP3316 - 2R2M	2.2	12	80	7.0	6.1
MSP3316 - 3R3M	3.3	15	65	6.4	5.4
MSP3316 - 4R7M	4.7	18	45	5.4	4.8
MSP3316 - 6R8M	6.8	27	38	4.6	4.4
MSP3316 - 100M	10	38	30	3.8	3.9
MSP3316 - 150M	15	46	27	3.0	3.1
MSP3316 - 220M	22	85	19	2.6	2.7
MSP3316 - 330M	33	100	15	2.0	2.1
MSP3316 - 470M	47	140	12	1.6	1.8
MSP3316 - 680M	68	200	10	1.4	1.5
MSP3316 - 101M	100	280	9	1.2	1.3
MSP3316 - 151M	150	400	6	1.0	1.0
MSP3316 - 221M	220	610	5	0.8	0.8
MSP3316 - 331M	300	1020	4.5	0.6	0.6
MSP3316 - 471M	470	1270	3.5	0.5	0.5
MSP3316 - 681M	680	2020	2.5	0.4	0.4
MSP3316 - 102M	1000	3000	2.0	0.3	0.3

### ▶ Electrical Characteristics For MSP3340 Series

Part Number	L [ $\mu$ H]	DCR(max) [m $\Omega$ ]	SRF(Typ) [MHz]	Isat [A]	Irms [A]
MSP3340 - 100M	10	40	22	8.0	3.5
MSP3340 - 150M	15	50	18	7.0	3.0
MSP3340 - 220M	22	66	11	5.5	2.5
MSP3340 - 330M	33	80	9	4.0	2.0
MSP3340 - 470M	47	110	8	3.8	1.6
MSP3340 - 680M	68	170	7	3.0	1.2
MSP3340 - 101M	100	220	5	2.5	1.2
MSP3340 - 151M	150	340	4	2.0	0.9
MSP3340 - 221M	220	440	3.5	1.6	0.7
MSP3340 - 331M	330	700	2.5	1.2	0.6
MSP3340 - 471M	470	950	2.0	1.0	0.3
MSP3340 - 681M	680	1200	2.0	1.0	0.2
MSP3340 - 102M	1000	2000	1.5	0.8	0.1

### ▶ Electrical Characteristics For MSP5022 Series

Part Number	L [ $\mu$ H]	DCR(max) [m $\Omega$ ]	SRF(Typ) [MHz]	Isat [A]	Irms [A]
MSP5022 - 1R0M	1	9	80	20.0	8.6
MSP5022 - 2R2M	2.2	14	80	16.0	7.1
MSP5022 - 3R3M	3.3	18	60	14.0	6.2
MSP5022 - 5R6M	5.6	20	40	12.0	5.3
MSP5022 - 100M	10	31	30	10.0	4.3
MSP5022 - 150M	15	36	22	8.0	4.0
MSP5022 - 220M	22	47	20	7.0	3.5
MSP5022 - 330M	33	66	15	5.5	3.0
MSP5022 - 470M	47	95	9	4.5	2.6
MSP5022 - 680M	68	130	8	3.5	2.3
MSP5022 - 101M	100	190	7	3.0	1.8
MSP5022 - 151M	150	250	6	2.6	1.5
MSP5022 - 221M	220	380	5	2.4	1.2
MSP5022 - 331M	330	560	4	1.9	1.0
MSP5022 - 471M	470	850	3	1.4	0.8
MSP5022 - 681M	680	1100	2.5	1.2	0.7
MSP5022 - 102M	1000	1800	2	1.0	0.6

Note: 1. Inductance tested at 100KHz / 0.1V;  
2. Operating temp: -40°C to +85°C;