



Features

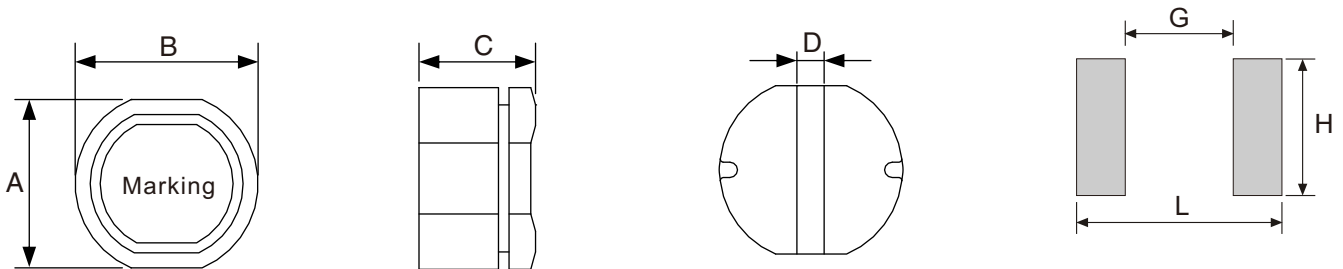
- Ferrite drum core construction.
- Magnetically shielded
- Suitable for large currents.

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C



▶ Shape and Dimensions (Unit:mm)



Recommended Layout

Type	A (±0.5)	B (±0.5)	C (max)	D (±0.3)	G (Ref)	H (Ref)	L (Ref)
MSRB0603	5.6±0.3	6.2±0.3	3.5	1.7	1.5	6	8.5
MSRB0704	7.0±0.3	7.8±0.3	4.9	1.9	1.5	7.5	8.5
MSRB1005	9.0±0.5	10.0±0.5	5.9	2.5	2	9	10
MSRB1205	11.5±0.5	12.5±0.5	5.9	3.0	2.5	12	12.5

▶ Electrical Characteristics For MSRB0603 Series

Part Number	Inductance [μH]	DCR(max) [Ω]	Isat(max) [A]	Irms(max) [A]
MSRB0603-100M	10±20%	0.14	1.00	1.80
MSRB0603-120M	12±20%	0.16	0.94	1.53
MSRB0603-150M	15±20%	0.18	0.86	1.37
MSRB0603-180M	18±20%	0.25	0.78	1.23
MSRB0603-220M	22±20%	0.32	0.76	1.10
MSRB0603-270M	27±20%	0.36	0.64	0.99
MSRB0603-330M	33±20%	0.41	0.61	0.89
MSRB0603-390M	39±20%	0.47	0.53	0.80
MSRB0603-470M	47±20%	0.51	0.50	0.72
MSRB0603-560M	56±20%	0.72	0.46	0.64
MSRB0603-680M	68±20%	0.82	0.42	0.57

► Electrical Characteristics For MSRB0704 Series

Part Number	Inductance [μ H]	DCR(max) [Ω]	Isat(max) [A]	Irms(max) [A]
MSRB0704-100M	10 \pm 20%	0.07	1.65	3.30
MSRB0704-120M	12 \pm 20%	0.07	1.57	3.00
MSRB0704-150M	15 \pm 20%	0.08	1.39	2.70
MSRB0704-180M	18 \pm 20%	0.10	1.29	2.43
MSRB0704-220M	22 \pm 20%	0.13	1.12	2.18
MSRB0704-270M	27 \pm 20%	0.16	1.06	1.96
MSRB0704-330L	33 \pm 15%	0.18	0.97	1.74
MSRB0704-390L	39 \pm 15%	0.18	0.91	1.64
MSRB0704-470L	47 \pm 15%	0.27	0.80	1.55
MSRB0704-560L	56 \pm 15%	0.29	0.76	1.47
MSRB0704-680L	68 \pm 15%	0.33	0.68	1.32
MSRB0704-820L	82 \pm 15%	0.43	0.62	1.20
MSRB0704-101K	100 \pm 10%	0.49	0.55	1.14
MSRB0704-121K	120 \pm 10%	0.68	0.49	1.08
MSRB0704-151K	150 \pm 10%	0.94	0.44	0.97
MSRB0704-181K	180 \pm 10%	1.00	0.40	0.87
MSRB0704-221K	220 \pm 10%	1.18	0.36	0.78
MSRB0704-271K	270 \pm 10%	1.30	0.33	0.70

► Electrical Characteristics For MSRB1005 Series

Part Number	Inductance [μ H]	DCR(max) [Ω]	Isat(max) [A]	Irms(max) [A]
MSRB1005-100M	10 \pm 20%	0.06	2.06	4.40
MSRB1005-120M	12 \pm 20%	0.07	1.94	4.00
MSRB1005-150M	15 \pm 20%	0.07	1.72	3.60
MSRB1005-180M	18 \pm 20%	0.08	1.58	3.24
MSRB1005-220M	22 \pm 20%	0.08	1.42	2.92
MSRB1005-270M	27 \pm 20%	0.10	1.32	2.63
MSRB1005-330L	33 \pm 15%	0.11	1.16	2.37
MSRB1005-390L	39 \pm 15%	0.12	1.10	2.14
MSRB1005-470L	47 \pm 15%	0.14	1.00	1.93
MSRB1005-560L	56 \pm 15%	0.19	0.93	1.74
MSRB1005-680L	68 \pm 15%	0.21	0.85	1.66
MSRB1005-820L	82 \pm 15%	0.28	0.79	1.57
MSRB1005-101K	100 \pm 10%	0.34	0.72	1.42
MSRB1005-121K	120 \pm 10%	0.37	0.63	1.28
MSRB1005-151K	150 \pm 10%	0.54	0.55	1.16
MSRB1005-181K	180 \pm 10%	0.57	0.50	1.05
MSRB1005-221K	220 \pm 10%	0.78	0.47	0.90
MSRB1005-271K	270 \pm 10%	0.87	0.41	0.86
MSRB1005-331K	330 \pm 10%	1.20	0.37	0.78
MSRB1005-391K	390 \pm 10%	1.34	0.35	0.70
MSRB1005-471K	470 \pm 10%	1.50	0.33	0.63

► Electrical Characteristics For MSRB1205 Series

Part Number	Inductance [μ H]	DCR(max) [Ω]	Isat(max) [A]	Irms(max) [A]
MSR1205-100M	10 \pm 20%	0.05	2.65	6.00
MSR1205-120M	12 \pm 20%	0.05	2.50	5.40
MSR1205-150M	15 \pm 20%	0.06	2.45	5.10
MSR1205-180M	18 \pm 20%	0.06	2.40	4.80
MSR1205-220M	22 \pm 20%	0.07	2.20	4.32
MSR1205-270M	27 \pm 20%	0.08	2.00	3.88
MSR1205-330M	33 \pm 20%	0.10	1.80	3.49
MSR1205-390M	39 \pm 20%	0.11	1.65	3.14
MSR1205-470M	47 \pm 20%	0.12	1.50	2.82
MSR1205-560M	56 \pm 20%	0.15	1.38	2.67
MSR1205-680M	68 \pm 20%	0.17	1.26	2.53
MSR1205-820M	82 \pm 20%	0.20	1.14	2.40
MSR1205-101M	100 \pm 20%	0.25	1.05	2.28
MSR1205-121M	120 \pm 20%	0.28	0.95	2.17
MSR1205-151M	150 \pm 20%	0.40	0.85	2.05
MSR1205-181M	180 \pm 20%	0.48	0.77	1.95
MSR1205-221M	220 \pm 20%	0.52	0.70	1.75
MSR1205-271M	270 \pm 20%	0.70	0.63	1.57
MSR1205-331M	330 \pm 20%	0.80	0.57	1.33
MSR1205-391M	390 \pm 20%	1.08	0.52	1.13
MSR1205-471M	470 \pm 20%	1.20	0.48	1.01
MSR1205-561M	560 \pm 20%	1.34	0.44	0.91
MSR1205-681M	680 \pm 20%	1.78	0.40	0.81
MSR1205-821M	820 \pm 20%	2.00	0.36	0.74

- Inductance tested at 100kHz
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 10% from its value without current