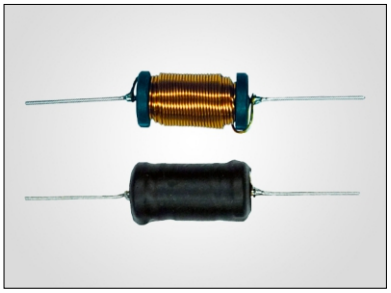
Axial Power Inductors - MCHA Series

Meisongbei



Features

- Low cost axial leaded inductors
- Wide inductance range
- Covered with UL heat shrink tubing

General Specifications

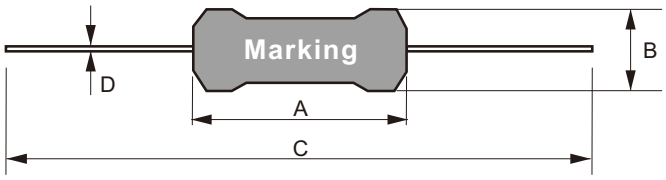
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Applications

- Power Supplies
- Switching circuits
- TV and audio equipment
- Telecommunication devices
- RF and other filters

RoHS COMPLIANT | REACH COMPLIANT | Halogen Free

Dimensions & Configurations (Unit:mm)



Type	A (max.)	B (±0.5)	C (±1.0)	D (±0.1)
MCHA0415	17.5	6.0	18	0.6
MCHA0610	12.0	6.5	60	0.6
MCHA0812	14.0	8.5	60	0.6
MCHA0914	16.0	9.5	70	0.8
MCHA1124	24.0	11.5	64	0.8

Electrical Characteristics For MCHA0415 Series

Part Number	Inductance [μH]	DCR(max) [Ω]	Rated Current [A]	Test Freq
MCHA0415-1R0M	1.0±20%	0.013	5.0	1KHz/0.25V
MCHA0415-2R2M	2.2±20%	0.021	5.0	1KHz/0.25V
MCHA0415-3R3M	3.3±20%	0.026	4.0	1KHz/0.25V
MCHA0415-3R9M	3.9±20%	0.029	4.0	1KHz/0.25V
MCHA0415-4R7M	4.7±20%	0.032	4.0	1KHz/0.25V
MCHA0415-5R6M	5.6±20%	0.036	3.0	1KHz/0.25V
MCHA0415-6R8M	6.8±20%	0.038	3.0	1KHz/0.25V
MCHA0415-7R5M	7.5±20%	0.042	3.0	1KHz/0.25V
MCHA0415-8R2M	8.2±20%	0.046	3.0	1KHz/0.25V
MCHA0415-100M	10±20%	0.054	3.0	1KHz/0.25V
MCHA0415-120M	12±20%	0.080	2.0	1KHz/0.25V
MCHA0415-150M	15±20%	0.092	2.0	1KHz/0.25V
MCHA0415-180M	18±20%	0.110	1.6	1KHz/0.25V
MCHA0415-220M	22±20%	0.135	1.6	1KHz/0.25V
MCHA0415-270M	27±20%	0.292	0.8	1KHz/0.25V
MCHA0415-330M	33±20%	0.335	0.8	1KHz/0.25V
MCHA0415-470M	39±20%	0.373	0.8	1KHz/0.25V
MCHA0415-680M	47±20%	0.488	0.7	1KHz/0.25V
MCHA0415-680M	68±20%	0.600	0.5	1KHz/0.25V
MCHA0415-101M	100±20%	0.830	0.4	1KHz/0.25V

Electrical Characteristics For MCHA0610 Series

Part Number	Inductance [μH]	DCR(max) [Ù]	Rated Current [mA]	Test Freq
MCHA0610-1R0M	1	0.02	2500	7.96MHz
MCHA0610-1R2M	1.2	0.02	2500	7.96MHz
MCHA0610-1R5M	1.5	0.02	2500	7.96MHz
MCHA0610-1R8M	1.8	0.02	2500	7.96MHz
MCHA0610-2R2M	2.2	0.02	2500	7.96MHz
MCHA0610-2R7M	2.7	0.02	2500	7.96MHz
MCHA0610-3R3M	3.3	0.02	2500	7.96MHz
MCHA0610-3R9M	3.9	0.03	2400	7.96MHz
MCHA0610-4R7M	4.7	0.04	2100	7.96MHz
MCHA0610-5R6M	5.6	0.04	1800	7.96MHz
MCHA0610-6R8M	6.8	0.05	1700	7.96MHz
MCHA0610-8R2M	8.2	0.05	1500	7.96MHz
MCHA0610-100K	10	0.07	1400	2.52MHz
MCHA0610-120K	12	0.08	1200	2.52MHz
MCHA0610-150K	15	0.09	1100	2.52MHz
MCHA0610-180K	18	0.11	1000	2.52MHz
MCHA0610-220K	22	0.13	900	2.52MHz
MCHA0610-270K	27	0.14	800	2.52MHz
MCHA0610-330K	33	0.16	700	2.52MHz
MCHA0610-390K	39	0.18	700	2.52MHz
MCHA0610-470K	47	0.22	600	2.52MHz
MCHA0610-560K	56	0.25	600	2.52MHz
MCHA0610-680K	68	0.28	500	2.52MHz
MCHA0610-820K	82	0.32	500	2.52MHz
MCHA0610-101K	100	0.42	400	796KHz
MCHA0610-121K	120	0.47	300	796KHz
MCHA0610-151K	150	0.58	300	796KHz
MCHA0610-181K	180	0.62	300	796KHz
MCHA0610-221K	220	0.89	260	796KHz
MCHA0610-271K	270	1.1	230	796KHz
MCHA0610-331K	330	1.2	210	796KHz
MCHA0610-391K	390	1.4	180	796KHz
MCHA0610-471K	470	1.5	170	796KHz
MCHA0610-561K	560	1.8	150	796KHz
MCHA0610-681K	680	1.9	140	796KHz
MCHA0610-821K	820	2.3	120	796KHz
MCHA0610-102K	1000	2.8	100	252KHz
MCHA0610-122K	1200	3.1	90	252KHz
MCHA0610-152K	1500	3.6	80	252KHz
MCHA0610-182K	1800	5.6	70	252KHz
MCHA0610-222K	2200	6.3	70	252KHz
MCHA0610-272K	2700	7.3	60	252KHz
MCHA0610-332K	3300	10	50	252KHz
MCHA0610-392K	3900	12	50	252KHz
MCHA0610-472K	4700	13	40	252KHz
MCHA0610-562K	5600	15	40	252KHz
MCHA0610-682K	6800	17	40	252KHz
MCHA0610-822K	8200	19	35	252KHz
MCHA0610-103K	10000	27	35	79.6KHz
MCHA0610-123K	12000	35	35	79.6KHz
MCHA0610-153K	15000	48	30	79.6KHz
MCHA0610-183K	18000	65	30	79.6KHz
MCHA0610-223K	22000	69	25	79.6KHz
MCHA0610-273K	27000	84	25	79.6KHz
MCHA0610-333K	33000	99	25	79.6KHz
MCHA0610-393K	39000	108	25	79.6KHz
MCHA0610-473K	47000	120	20	79.6KHz

Electrical Characteristics For MCHA0812 Series

Part Number	Inductance [μH]	DCR(max) [Ω]	Rated Current [mA]	Test Freq
MCHA0812-1R0M	1	0.02	3400	7.96MHz
MCHA0812-1R2M	1.2	0.02	3400	7.96MHz
MCHA0812-1R5M	1.5	0.02	3400	7.96MHz
MCHA0812-1R8M	1.8	0.02	3400	7.96MHz
MCHA0812-2R2M	2.2	0.02	3300	7.96MHz
MCHA0812-2R7M	2.7	0.03	3000	7.96MHz
MCHA0812-3R3M	3.3	0.03	2800	7.96MHz
MCHA0812-3R9M	3.9	0.03	2800	7.96MHz
MCHA0812-4R7M	4.7	0.03	2400	7.96MHz
MCHA0812-5R6M	5.6	0.03	2400	7.96MHz
MCHA0812-6R8M	6.8	0.04	2300	7.96MHz
MCHA0812-8R2M	8.2	0.04	2100	7.96MHz
MCHA0812-100K	10	0.05	2000	2.52MHz
MCHA0812-120K	12	0.05	1800	2.52MHz
MCHA0812-150K	15	0.06	1500	2.52MHz
MCHA0812-180K	18	0.07	1400	2.52MHz
MCHA0812-220K	22	0.08	1300	2.52MHz
MCHA0812-270K	27	0.11	1200	2.52MHz
MCHA0812-330K	33	0.12	1100	2.52MHz
MCHA0812-390K	39	0.13	1000	2.52MHz
MCHA0812-470K	47	0.14	900	2.52MHz
MCHA0812-560K	56	0.16	800	2.52MHz
MCHA0812-680K	68	0.21	700	2.52MHz
MCHA0812-820K	82	0.24	600	2.52MHz
MCHA0812-101K	100	0.30	400	796KHz
MCHA0812-121K	120	0.34	400	796KHz
MCHA0812-151K	150	0.48	350	796KHz
MCHA0812-181K	180	0.55	350	796KHz
MCHA0812-221K	220	0.62	350	796KHz
MCHA0812-271K	270	0.69	300	796KHz
MCHA0812-331K	330	0.78	300	796KHz
MCHA0812-391K	390	1.4	250	796KHz
MCHA0812-471K	470	1.6	250	796KHz
MCHA0812-561K	560	1.7	200	796KHz
MCHA0812-681K	680	2.0	180	796KHz
MCHA0812-821K	820	2.4	150	796KHz
MCHA0812-102K	1000	2.4	100	252KHz
MCHA0812-122K	1200	2.4	100	252KHz
MCHA0812-152K	1500	2.5	80	252KHz
MCHA0812-182K	1800	3.4	70	252KHz
MCHA0812-222K	2200	3.8	60	252KHz
MCHA0812-272K	2700	4.9	60	252KHz
MCHA0812-332K	3300	5.7	50	252KHz
MCHA0812-392K	3900	6.3	50	252KHz
MCHA0812-472K	4700	7.3	50	252KHz
MCHA0812-562K	5600	11	40	252KHz
MCHA0812-682K	6800	12	40	252KHz
MCHA0812-822K	8200	14	40	252KHz
MCHA0812-103K	10000	22	35	79.6KHz
MCHA0812-123K	12000	24	35	79.6KHz
MCHA0812-153K	15000	29	35	79.6KHz
MCHA0812-183K	18000	32	35	79.6KHz
MCHA0812-223K	22000	47	30	79.6KHz
MCHA0812-273K	27000	54	30	79.6KHz
MCHA0812-333K	33000	62	25	79.6KHz
MCHA0812-393K	39000	69	25	79.6KHz

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Electrical Characteristics For MCHA0914 Series

Part Number	Inductance [μH]	DCR(max) [Ù]	Rated Current [mA]	Test Freq
MCHA0914-1R0M	1	0.023	3500	7.96MHz
MCHA0914-1R2M	1.2	0.023	3500	7.96MHz
MCHA0914-1R5M	1.5	0.023	3500	7.96MHz
MCHA0914-1R8M	1.8	0.023	3500	7.96MHz
MCHA0914-2R2M	2.2	0.023	3500	7.96MHz
MCHA0914-2R7M	2.7	0.026	3500	7.96MHz
MCHA0914-3R3M	3.3	0.029	3500	7.96MHz
MCHA0914-3R9M	3.9	0.029	3500	7.96MHz
MCHA0914-4R7M	4.7	0.033	3500	7.96MHz
MCHA0914-5R6M	5.6	0.035	3500	7.96MHz
MCHA0914-6R8M	6.8	0.040	3500	7.96MHz
MCHA0914-8R2M	8.2	0.040	3500	7.96MHz
MCHA0914-100K	10	0.050	2500	2.52MHz
MCHA0914-120K	12	0.050	2400	2.52MHz
MCHA0914-150K	15	0.054	2000	2.52MHz
MCHA0914-180K	18	0.068	1930	2.52MHz
MCHA0914-220K	22	0.071	1760	2.52MHz
MCHA0914-270K	27	0.077	1490	2.52MHz
MCHA0914-330K	33	0.084	1490	2.52MHz
MCHA0914-390K	39	0.096	1280	2.52MHz
MCHA0914-470K	47	0.104	1220	2.52MHz
MCHA0914-560K	56	0.150	1060	2.52MHz
MCHA0914-680K	68	0.176	1000	2.52MHz
MCHA0914-820K	82	0.192	830	2.52MHz
MCHA0914-101K	100	0.25	610	796KHz
MCHA0914-121K	120	0.27	560	796KHz
MCHA0914-151K	150	0.31	470	796KHz
MCHA0914-181K	180	0.35	450	796KHz
MCHA0914-221K	220	0.51	380	796KHz
MCHA0914-271K	270	0.57	330	796KHz
MCHA0914-331K	330	0.64	330	796KHz
MCHA0914-391K	390	0.86	330	796KHz
MCHA0914-471K	470	0.95	330	796KHz
MCHA0914-561K	560	1.08	320	796KHz
MCHA0914-681K	680	1.09	320	796KHz
MCHA0914-821K	820	0.33	310	796KHz
MCHA0914-102K	1000	0.65	110	252KHz
MCHA0914-122K	1200	0.87	90	252KHz
MCHA0914-152K	1500	2.14	81	252KHz
MCHA0914-182K	1800	2.48	72	252KHz
MCHA0914-222K	2200	3.65	63	252KHz
MCHA0914-272K	2700	4.15	63	252KHz
MCHA0914-332K	3300	4.67	54	252KHz
MCHA0914-392K	3900	5.01	54	252KHz
MCHA0914-472K	4700	5.75	45	252KHz
MCHA0914-562K	5600	7.52	45	252KHz
MCHA0914-682K	6800	8.66	36	252KHz
MCHA0914-822K	8200	9.35	36	252KHz
MCHA0914-103K	10000	15.9	34	79.6KHz
MCHA0914-123K	12000	18.2	34	79.6KHz
MCHA0914-153K	15000	20.6	32	79.6KHz
MCHA0914-183K	18000	23.3	31	79.6KHz
MCHA0914-223K	22000	26.9	28	79.6KHz
MCHA0914-273K	27000	37.0	27	79.6KHz
MCHA0914-333K	33000	43.2	25	79.6KHz
MCHA0914-393K	39000	47.9	23	79.6KHz
MCHA0914-473K	47000	54.0	22	79.6KHz
MCHA0914-563K	56000	70.4	21	79.6KHz
MCHA0914-683K	68000	79.0	20	79.6KHz
MCHA0914-823K	82000	103.6	20	79.6KHz
MCHA0914-104K	100000	111.0	19	79.6KHz

Axial Power Inductors - MCHA Series

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Electrical Characteristics For MCHA1124 Series

Part Number	Inductance [μH]	DCR(max) [Ω]	Isat [A]	Irms [A]
MCHA1124-100K	10±10%	0.025	8.00	5.80
MCHA1124-120K	12±10%	0.028	7.50	5.40
MCHA1124-150K	15±10%	0.032	6.80	5.20
MCHA1124-180K	18±10%	0.035	6.30	5.00
MCHA1124-220K	22±10%	0.040	5.60	4.30
MCHA1124-270K	27±10%	0.048	5.00	4.00
MCHA1124-330K	33±10%	0.055	4.50	3.80
MCHA1124-390K	39±10%	0.060	4.30	3.50
MCHA1124-470K	47±10%	0.075	3.80	2.80
MCHA1124-560K	56±10%	0.085	3.50	2.60
MCHA1124-680K	68±10%	0.095	3.10	2.50
MCHA1124-820K	82±10%	0.10	2.85	2.40
MCHA1124-101K	100±10%	0.13	2.60	2.20
MCHA1124-121K	120±10%	0.16	2.30	2.00
MCHA1124-151K	150±10%	0.17	2.15	1.80
MCHA1124-181K	180±10%	0.19	2.00	1.70
MCHA1124-221K	220±10%	0.25	1.85	1.60
MCHA1124-271K	270±10%	0.28	1.60	1.50
MCHA1124-331K	330±10%	0.32	1.45	1.40
MCHA1124-391K	390±10%	0.36	1.35	1.30
MCHA1124-471K	470±10%	0.48	1.20	1.10
MCHA1124-561K	560±10%	0.53	1.10	1.00
MCHA1124-681K	680±10%	0.60	1.05	0.95
MCHA1124-821K	820±10%	0.80	0.95	0.88
MCHA1124-102K	1000±10%	0.90	0.85	0.80
MCHA1124-122K	1200±10%	1.20	0.75	0.70
MCHA1124-152K	1500±10%	1.40	0.70	0.64
MCHA1124-182K	1800±10%	1.80	0.65	0.58
MCHA1124-222K	2200±10%	2.05	0.58	0.54
MCHA1124-272K	2700±10%	2.60	0.52	0.47
MCHA1124-332K	3300±10%	2.95	0.46	0.45
MCHA1124-392K	3900±10%	3.60	0.42	0.40
MCHA1124-472K	4700±10%	4.10	0.38	0.37
MCHA1124-562K	5600±10%	5.10	0.34	0.33
MCHA1124-682K	6800±10%	5.90	0.30	0.30
MCHA1124-822K	8200±10%	7.50	0.26	0.27
MCHA1124-103K	10000±10%	9.50	0.24	0.24