



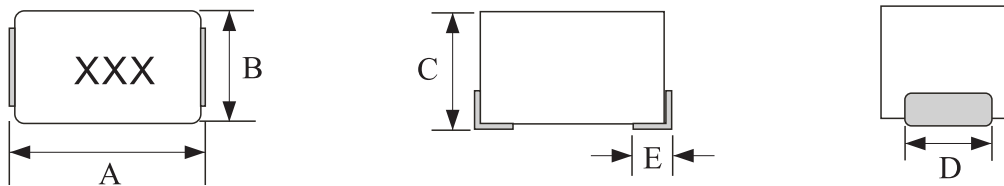
## Features

- Monolithic inorganic material construction
- Closed magnetic circuit avoids crosstalk
- S.M.T. Type
- Suitable for flow and eflow soldering.
- Shapes and dimensions follow E.I.A.spec
- Available in various sizes.
- High reliability
- RoHS compliant

## Applications

- Mobil Radios
- Modems
- Global Positioning Systems
- Network Systems
- Computer Products
- Mobil Radios
- Cordless Telephones

## ► Dimensions & Configurations (Unit:mm)



Type	A ±0.2	B ±0.2	C±0.2	D ±0.2	E
MW252018(1008)	2.5	2.0	1.8	1.0	0.5
MW322522(1210)	3.2	2.5	2.2	1.2	0.5
MW453232(1812)	4.5	3.2	3.2	1.3	1.0
MW565050(2220)	5.6	5.0	5.0	2.0	1.0

## ▶ Electrical Characteristics For MW1008 Series

Part Number	Inductance [ $\mu$ H]	Q (min)	DCR (max) [ $\Omega$ ]	IDC (max) [mA]	SRF (min) [MHz]	Test Freq [MHz]
MW1008 - R12K	0.12	30	0.37	520	600	25.2
MW1008 - R15K	0.15	30	0.42	480	550	25.2
MW1008 - R18K	0.18	30	0.46	460	500	25.2
MW1008 - R22K	0.22	30	0.52	430	450	25.2
MW1008 - R27K	0.27	30	0.56	420	425	25.2
MW1008 - R33K	0.33	30	0.60	400	400	25.2
MW1008 - R39K	0.39	30	0.65	375	375	25.2
MW1008 - R47K	0.47	30	0.68	350	350	25.2
MW1008 - R56K	0.56	30	0.75	325	300	25.2
MW1008 - R68K	0.68	30	0.85	300	270	25.2
MW1008 - R82K	0.82	30	1.00	260	250	25.2
MW1008 - 1R0J	1.0	30	1.10	245	220	7.96
MW1008 - 1R2J	1.2	30	1.20	230	180	7.96
MW1008 - 1R5J	1.5	30	1.30	220	135	7.96
MW1008 - 1R8J	1.8	30	1.45	210	100	7.96
MW1008 - 2R2J	2.2	30	1.55	200	75	7.96
MW1008 - 2R7J	2.7	30	1.70	195	55	7.96
MW1008 - 3R3J	3.3	30	1.90	185	48	7.96
MW1008 - 3R9J	3.9	30	2.10	180	43	7.96
MW1008 - 4R7J	4.7	30	2.30	175	40	7.96
MW1008 - 5R6J	5.6	25	2.50	170	36	7.96
MW1008 - 6R8J	6.8	25	2.70	165	33	7.96
MW1008 - 8R2J	8.2	25	3.05	160	30	7.96
MW1008 - 100J	10	25	3.50	155	27	2.52
MW1008 - 120J	12	25	3.80	150	23	2.52
MW1008 - 150J	15	25	4.40	140	20	2.52
MW1008 - 180J	18	25	4.80	130	18	2.52
MW1008 - 220J	22	25	5.50	125	17	2.52
MW1008 - 270J	27	25	6.30	115	16	2.52
MW1008 - 330J	33	25	7.10	110	15	2.52
MW1008 - 390J	39	20	9.50	90	14	2.52
MW1008 - 470J	47	20	11.10	80	13	2.52
MW1008 - 560J	56	20	12.10	75	12	2.52
MW1008 - 680J	68	20	16.60	70	11	2.52
MW1008 - 820J	82	20	19.00	65	10	2.52
MW1008 - 101J	100	15	21.00	60	9	0.796

## ► Electrical Characteristics For MW1210 Series

Part Number	Inductance [ $\mu$ H]	Q (min)	DCR (max) [ $\Omega$ ]	IDC (max) [mA]	SRF (min) [MHz]	Test Freq [MHz]
MW1210 - 010K	0.010	15	0.13	450	2500	100
MW1210 - 012K	0.012	17	0.15	450	2300	100
MW1210 - 015K	0.015	19	0.16	450	2100	100
MW1210 - 018K	0.018	21	0.18	450	1900	100
MW1210 - 022K	0.022	23	0.20	450	1700	100
MW1210 - 027K	0.027	23	0.22	450	1500	100
MW1210 - 033K	0.033	25	0.20	450	1400	100
MW1210 - 039K	0.039	25	0.27	450	1300	100
MW1210 - 047K	0.047	26	0.30	450	1200	100
MW1210 - 056K	0.056	26	0.33	450	1100	100
MW1210 - 068K	0.068	27	0.36	450	1000	100
MW1210 - 082K	0.082	27	0.40	450	900	100
MW1210 - R10K	0.10	28	0.44	450	700	100
MW1210 - R12K	0.12	30	0.22	450	500	25.2
MW1210 - R15K	0.15	30	0.25	450	450	25.2
MW1210 - R18K	0.18	30	0.28	450	400	25.2
MW1210 - R22K	0.22	30	0.32	450	350	25.2
MW1210 - R27K	0.27	30	0.36	450	320	25.2
MW1210 - R33K	0.33	30	0.40	450	300	25.2
MW1210 - R39K	0.39	30	0.45	450	250	25.2
MW1210 - R47K	0.47	30	0.50	450	220	25.2
MW1210 - R56K	0.56	30	0.55	450	18	25.2
MW1210 - R68K	0.68	30	0.60	450	160	25.2
MW1210 - R82K	0.82	30	0.65	450	140	25.2
MW1210 - 1R0J	1.0	30	0.70	400	120	7.96
MW1210 - 1R2J	1.2	30	0.75	390	100	7.96
MW1210 - 1R5J	1.5	30	0.85	370	85	7.96
MW1210 - 1R8J	1.8	30	0.90	350	80	7.96
MW1210 - 2R2J	2.2	30	1.0	320	75	7.96
MW1210 - 2R7J	2.7	30	1.1	290	70	7.96
MW1210 - 3R3J	3.3	30	1.2	260	60	7.96
MW1210 - 3R9J	3.9	30	1.3	250	55	7.96
MW1210 - 4R7J	4.7	30	1.5	220	50	7.96
MW1210 - 5R6J	5.6	30	1.6	200	47	7.96
MW1210 - 6R8J	6.8	30	1.8	180	43	7.96
MW1210 - 8R2J	8.2	30	2.0	170	40	7.96

► Electrical Characteristics For Mc1210 Series

Part Number	Inductance [uH]	Q (min)	DCR (max) [Ω]	IDC (max) [mA]	SRF (min) [MHz]	Test Freq [MHz]
MW1210 - 100J	10	30	2.1	150	36	2.52
MW1210 - 120J	12	30	2.5	140	33	2.52
MW1210 - 150J	15	30	2.8	130	28	2.52
MW1210 - 180J	18	30	3.3	120	25	2.52
MW1210 - 220J	22	30	3.7	110	23	2.52
MW1210 - 270J	27	30	5.0	80	20	2.52
MW1210 - 330J	33	30	5.6	70	17	2.52
MW1210 - 390J	39	30	6.4	65	16	2.52
MW1210 - 470J	47	30	7.0	60	15	2.52
MW1210 - 560J	56	30	8.0	55	13	2.52
MW1210 - 680J	68	30	9.0	50	12	2.52
MW1210 - 820J	82	30	10	45	11	2.52
MW1210 - 101J	100	30	10	40	10	0.796
MW1210 - 121J	120	20	11	70	10	0.796
MW1210 - 151J	150	20	15	65	8	0.796
MW1210 - 181J	180	20	17	60	7	0.796
MW1210 - 221J	220	20	21	50	7	0.796

► Electrical Characteristics For MW1812 Series

Part Number	Inductance [uH]	Q (min)	DCR (max) [Ω]	IDC (max) [mA]	SRF (min) [MHz]	Test Freq [MHz]
MW1812 - R10K	0.10	35	0.18	800	300	25.2
MW1812 - R12K	0.12	35	0.20	770	280	25.2
MW1812 - R15K	0.15	35	0.22	730	250	25.2
MW1812 - R18K	0.18	35	0.24	700	220	25.2
MW1812 - R22K	0.22	40	0.25	665	200	25.2
MW1812 - R27K	0.27	40	0.26	635	180	25.2
MW1812 - R33K	0.33	40	0.28	605	165	25.2
MW1812 - R39K	0.39	40	0.30	575	150	25.2
MW1812 - R47K	0.47	40	0.32	545	145	25.2
MW1812 - R56K	0.56	40	0.36	520	140	25.2
MW1812 - R68K	0.68	40	0.40	500	135	25.2
MW1812 - R82K	0.82	40	0.45	475	130	25.2
MW1812 - 1R0J	1.0	50	0.50	450	100	7.96
MW1812 - 1R2J	1.2	50	0.55	430	80	7.96
MW1812 - 1R5J	1.5	50	0.60	410	70	7.96
MW1812 - 1R8J	1.8	50	0.65	390	60	7.96
MW1812 - 2R2J	2.2	50	0.70	380	55	7.96

## ▶ Electrical Characteristics For MW1812 Series

Part Number	Inductance [uH]	Q (min)	DCR (max) [Ω]	IDC (max) [mA]	SRF (min) [MHz]	Test Freq [MHz]
MW1812 - 2R7J	2.7	50	0.75	370	50	7.96
MW1812 - 3R3J	3.3	50	0.80	355	45	7.96
MW1812 - 3R9J	3.9	50	0.90	330	40	7.96
MW1812 - 4R7J	4.7	50	1.0	315	35	7.96
MW1812 - 5R6J	5.6	50	1.1	300	33	7.96
MW1812 - 6R8J	6.8	50	1.2	285	27	7.96
MW1812 - 8R2J	8.2	50	1.4	270	25	7.96
MW1812 - 100J	10	50	1.6	250	20	2.52
MW1812 - 120J	12	50	2.0	225	18	2.52
MW1812 - 150J	15	50	2.5	200	17	2.52
MW1812 - 180J	18	50	2.8	190	15	2.52
MW1812 - 220J	22	50	3.2	180	13	2.52
MW1812 - 270J	27	50	3.6	170	12	2.52
MW1812 - 330J	33	50	4.0	160	11	2.52
MW1812 - 390J	39	50	4.5	150	10	2.52
MW1812 - 470J	47	50	5.0	140	10	2.52
MW1812 - 560J	56	50	5.5	135	9.0	25.2
MW1812 - 680J	68	50	6.0	130	9.0	25.2
MW1812 - 820J	82	50	7.0	120	8.0	25.2
MW1812 - 101J	100	40	8.0	110	8.0	7.96
MW1812 - 121J	120	40	8.0	110	6.0	7.96
MW1812 - 151J	150	40	9.0	105	5.0	7.96
MW1812 - 181J	180	40	9.5	102	5.0	7.96
MW1812 - 221J	220	40	10.0	100	4.0	7.96
MW1812 - 271J	270	40	12.0	92	4.0	7.96
MW1812 - 331J	330	40	14.0	85	3.5	7.96
MW1812 - 391J	390	40	18.0	80	3.0	7.96
MW1812 - 471J	470	40	26.0	62	3.0	7.96
MW1812 - 561J	560	30	30.0	50	3.0	7.96
MW1812 - 681J	680	30	30.0	50	3.0	7.96
MW1812 - 821J	820	30	35.0	30	2.5	7.96
MW1812 - 102J	1000	20	40.0	30	2.5	2.52

## ▶ Electrical Characteristics For MW2220 Series

Part Number	Inductance [ $\mu$ H]	Q (min)	DCR (max) [ $\Omega$ ]	IDC (max) [mA]	SRF (min) [MHz]	Test Freq [MHz]
MW2220 - 1R0K	1	10	0.03	1800	95	7.96
MW2220 - 1R2K	1.2	10	0.035	1700	70	7.96
MW2220 - 1R5K	1.5	10	0.04	1600	55	7.96
MW2220 - 1R8K	1.8	10	0.05	1400	47	7.96
MW2220 - 2R2K	2.2	10	0.06	1300	42	7.96
MW2220 - 2R7K	2.7	10	0.07	1200	37	7.96
MW2220 - 3R3K	3.3	10	0.08	1120	34	7.96
MW2220 - 3R9K	3.9	10	0.09	1050	32	7.96
MW2220 - 4R7K	4.7	10	0.11	950	29	7.96
MW2220 - 5R6K	5.6	10	0.13	880	26	7.96
MW2220 - 6R8K	6.8	10	0.15	810	24	7.96
MW2220 - 8R2K	8.2	10	0.18	750	22	7.96
MW2220 - 100K	10	10	0.21	690	19	2.52
MW2220 - 120K	12	10	0.25	630	17	2.52
MW2220 - 150K	15	10	0.30	580	16	2.52
MW2220 - 180K	18	10	0.36	530	14	2.52
MW2220 - 220K	22	10	0.43	480	13	2.52
MW2220 - 270K	27	10	0.52	440	11.5	2.52
MW2220 - 330K	33	10	0.62	400	10.5	2.52
MW2220 - 390K	39	10	0.72	370	9.5	2.52
MW2220 - 470K	47	10	0.85	340	8.5	2.52
MW2220 - 560K	56	10	1.0	310	7.8	2.52
MW2220 - 680K	68	10	1.2	290	7	2.52
MW2220 - 820K	82	10	1.4	270	6.4	2.52
MW2220 - 101K	100	20	1.6	250	6	0.796
MW2220 - 121K	120	20	1.9	230	5.4	0.796
MW2220 - 151K	150	20	2.2	210	4.8	0.796
MW2220 - 181K	180	20	2.8	190	4.4	0.796
MW2220 - 221K	220	20	3.4	170	3.9	0.796
MW2220 - 271K	270	20	4.2	155	3.6	0.796
MW2220 - 331K	330	20	4.9	140	3.2	0.796
MW2220 - 391K	390	20	5.8	130	2.9	0.796
MW2220 - 471K	470	20	7.0	120	2.6	0.796
MW2220 - 561K	560	20	8.5	110	2.4	0.796
MW2220 - 681K	680	20	10	100	2.2	0.796
MW2220 - 821K	820	20	13	90	2	0.796
MW2220 - 102K	1000	20	15	85	1.8	0.252
MW2220 - 122J	1200	30	17	75	1.5	0.252

## ► Electrical Characteristics For MW2220 Series

Part Number	Inductance [uH]	Q (min)	DCR (max) [Ω]	IDC (max) [mA]	SRF (min) [MHz]	Test Freq [MHz]
MW2220 - 152J	1500	30	20	70	1.4	0.252
MW2220 - 182J	1800	30	30	60	1.3	0.252
MW2220 - 222J	2200	30	35	55	1.2	0.252
MW2220 - 272J	2700	30	55	45	1.1	0.252
MW2220 - 332J	3300	30	60	40	1	0.252
MW2220 - 392J	3900	30	70	38	1	0.252
MW2220 - 472J	4700	30	78	36	0.9	0.252
MW2220 - 562J	5600	30	85	33	0.8	0.252
MW2220 - 682J	6800	30	110	30	0.7	0.252
MW2220 - 822J	8200	30	125	28	0.6	0.252
MW2220 - 103J	10000	20	150	25	0.5	0.0796