

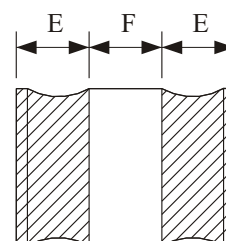
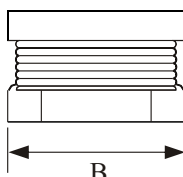
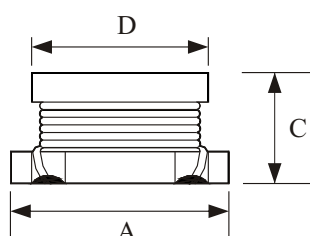
Features

- MSG series consists of miniature chip inductors wire wound on a special ferrite core
- High Q value at high frequencies and low DC resistance
- Wide inductance range from 1.0 to 2200 mH

Applications

- Modems PDP, LCD TVs convertor
- Mobile Radios DC/DC convertor
- Cordless Telephones Car radios
- Wireless Communications Equipment
- Networking System, xDSL Filter
- Computer products and Peripherals

► Dimensions & Configurations (Unit:mm)



Type	A ± 0.3	B ± 0.2	C ± 0.2	D ± 0.2	E ± 0.2	F ± 0.2
MSE1206	3.2	1.6	1.8	2.3	0.7	0.7
MSE1210	3.2	2.5	2.0	2.5	0.9	1.3
MSE1812	4.5	3.2	2.6	3.6	1	1
MSE2220	5.7	5.0	4.7	5.0	1.3	1.7

Note: Design as Customer's Requested Specifications.

Electrical Characteristics For MSE1206 Series

Part Number	L [μH]	L Test Freq [MHz]	Q Test Freq [MHz]	Q (min)	SRF [MHz]	DCR(max) [Ω]	IDC(max) [mA]
MSE1206 - R15M	0.15	1	25	20	250	0.39	250
MSE1206 - R22M	0.22	1	25	20	250	0.43	240
MSE1206 - R33M	0.33	1	25	30	250	0.45	230
MSE1206 - R47M	0.47	1	25	30	200	0.83	215
MSE1206 - R56M	0.56	1	25	30	180	0.61	200
MSE1206 - R68M	0.68	1	25	30	160	0.67	190
MSE1206 - R82M	0.82	1	25	30	120	0.73	185
MSE1206 - 1R0M	1	1	10	35	100	0.49	175
MSE1206 - 1R2M	1.2	1	10	35	90	0.90	165
MSE1206 - 1R5M	1.5	1	10	35	75	1.00	155
MSE1206 - 1R8M	1.8	1	10	35	60	1.60	150
MSE1206 - 2R2M	2.2	1	10	35	50	0.70	140
MSE1206 - 2R7M	2.7	1	10	35	43	0.55	135
MSE1206 - 3R3M	3.3	1	8	35	38	0.61	130
MSE1206 - 3R9M	3.9	1	8	35	35	1.5	125
MSE1206 - 4R7K	4.7	1	8	35	31	1.7	120
MSE1206 - 5R6K	5.6	1	8	35	28	1.8	115
MSE1206 - 6R8K	6.8	1	8	35	25	2.0	110
MSE1206 - 8R2K	8.2	1	8	35	23	2.2	105
MSE1206 - 100K	10	1	5	35	20	2.5	100
MSE1206 - 120K	12	1	5	35	18	2.7	95
MSE1206 - 150K	15	1	5	35	16	3.0	90
MSE1206 - 180K	18	1	5	35	15	3.4	85
MSE1206 - 220K	22	1	2.5	40	14	3.1	85
MSE1206 - 270K	27	1	2.5	40	13	3.4	85
MSE1206 - 330K	33	1	2.5	40	12	3.8	80
MSE1206 - 390K	39	1	2.5	40	11	7.2	85
MSE1206 - 470K	47	1	2.5	40	10	8.0	85
MSE1206 - 560K	56	1	2.5	40	9	8.9	50
MSE1206 - 680K	68	1	2.5	40	8.5	9.9	50
MSE1206 - 820K	82	1	2.5	40	7.5	11	45
MSE1206 - 101K	100	1	2.5	40	7	12	45

Electrical Characteristics For MSE1210 Series

Part Number	L [μH]	L Test Freq [MHz]	Q Test Freq [MHz]	Q (min)	SRF [MHz]	DCR(max) [Ω]	IDC(max) [mA]
MSE1210 - R10M	0.1	1	25.2	20	200	0.25	700
MSE1210 - R18M	0.18	1	25.2	20	200	0.25	650
MSE1210 - R27M	0.27	1	25.2	25	200	0.25	600
MSE1210 - R39M	0.39	1	25.2	25	200	0.25	530
MSE1210 - R56M	0.56	1	25.2	30	160	0.25	530
MSE1210 - R68M	0.68	1	25.2	30	160	0.25	470
MSE1210 - R82M	0.82	1	25.2	30	120	0.25	450
MSE1210 - 1R0M	1	1	1	20	100	0.50	445
MSE1210 - 1R2M	1.2	1	1	20	100	0.60	425
MSE1210 - 1R5M	1.5	1	1	20	75	0.60	400
MSE1210 - 1R8M	1.8	1	1	20	60	0.70	390
MSE1210 - 2R2M	2.2	1	1	20	50	0.80	370
MSE1210 - 2R7M	2.7	1	1	20	43	0.90	320
MSE1210 - 3R3M	3.3	1	1	20	38	1.00	300
MSE1210 - 3R9M	3.9	1	1	20	35	1.1	290
MSE1210 - 4R7K	4.7	1	1	20	31	1.2	270
MSE1210 - 5R6K	5.6	1	1	20	28	1.3	250
MSE1210 - 6R8K	6.8	1	1	20	25	1.5	240
MSE1210 - 8R2K	8.2	1	1	20	23	1.6	225
MSE1210 - 100K	10	1	1	35	20	1.8	190
MSE1210 - 120K	12	1	1	35	18	2.0	180
MSE1210 - 150K	15	1	1	35	16	2.2	170
MSE1210 - 180K	18	1	1	35	15	2.5	165
MSE1210 - 220K	22	1	1	35	14	2.8	150
MSE1210 - 270K	27	1	1	35	13	3.1	125
MSE1210 - 330K	33	1	1	40	12	3.5	115
MSE1210 - 390K	39	1	1	40	11	3.9	110
MSE1210 - 470K	47	1	1	40	11	4.3	100
MSE1210 - 560K	56	1	1	40	10	4.9	85
MSE1210 - 680K	68	1	1	40	9	5.5	80
MSE1210 - 820K	82	1	1	40	8.5	6.2	70
MSE1210 - 101K	100	1	0.796	40	8.0	7.1	80
MSE1210 - 221K	220	1	0.796	40	5.5	11.8	65
MSE1210 - 271K	270	1	0.796	40	5.0	12.5	65

Electrical Characteristics For MSE1812 Series

Part Number	L [μH]	L Test Freq [MHz]	Q Test Freq [MHz]	Q (min)	SRF [MHz]	DCR(max) [Ω]	IDC(max) [mA]
MSE1812 - 1R0M	1	1	1	20	120	0.20	550
MSE1812 - 1R2M	1.2	1	1	20	100	0.25	530
MSE1812 - 1R5M	1.5	1	1	20	85	0.28	500
MSE1812 - 1R8M	1.8	1	1	20	75	0.30	500
MSE1812 - 2R2M	2.2	1	1	20	62	0.30	500
MSE1812 - 2R7M	2.7	1	1	20	53	0.32	500
MSE1812 - 3R3M	3.3	1	1	20	47	0.35	500
MSE1812 - 3R9M	3.9	1	1	20	42	0.38	500
MSE1812 - 4R7K	4.7	1	1	30	38	0.40	500
MSE1812 - 5R6K	5.6	1	1	30	35	0.47	500
MSE1812 - 6R8K	6.8	1	1	30	32	0.50	500
MSE1812 - 8R2K	8.2	1	1	30	28	0.56	500
MSE1812 - 100K	10	1	1	35	24	0.56	450
MSE1812 - 120K	12	1	1	35	22	0.62	450
MSE1812 - 150K	15	1	1	35	19	0.7	390
MSE1812 - 180K	18	1	1	35	17	0.8	370
MSE1812 - 220K	22	1	1	35	15	0.9	350
MSE1812 - 270K	27	1	1	35	14	1.1	330
MSE1812 - 330K	33	1	1	35	12	1.2	310
MSE1812 - 390K	39	1	1	35	11	1.4	280
MSE1812 - 470K	47	1	1	35	10	1.5	250
MSE1812 - 560K	56	1	1	35	9.5	1.7	225
MSE1812 - 680K	68	1	1	35	8.5	1.9	200
MSE1812 - 820K	82	1	1	35	7.5	2.2	185
MSE1812 - 101K	100	1	0.796	35	8.8	2.5	175
MSE1812 - 121K	120	1	0.796	40	6.2	3.0	165
MSE1812 - 151K	150	1	0.796	40	5.5	3.7	155
MSE1812 - 181K	180	1	0.796	40	5	4.5	135
MSE1812 - 221K	220	1	0.796	40	4.5	5.4	125
MSE1812 - 271K	270	1	0.796	40	4	6.8	115
MSE1812 - 331K	330	1	0.796	40	3.7	8.2	100
MSE1812 - 391K	390	1	0.796	40	3.3	9.7	90
MSE1812 - 471K	470	0.001	0.796	40	3	12	80

► Electrical Characteristics For MSE2220 Series

Part Number	L [μH]	L Test Freq [MHz]	Q Test Freq [MHz]	Q (min)	SRF [MHz]	DCR(max) [Ω]	IDC(max) [A]
MSE2220 - R12M	0.12	1	1	10	450	0.01	6.0
MSE2220 - R27M	0.27	1	1	10	300	0.01	5.3
MSE2220 - R47M	0.47	1	1	10	200	0.02	4.8
MSE2220 - 1R0M	1	1	1	20	150	0.03	4.0
MSE2220 - 1R5M	1.5	1	1	20	110	0.03	3.7
MSE2220 - 2R2M	2.2	1	1	20	80	0.04	3.2
MSE2220 - 3R3M	3.3	1	1	20	40	0.05	2.9
MSE2220 - 4R7M	4.7	1	1	30	30	0.06	2.7
MSE2220 - 6R8M	6.8	1	1	30	25	0.10	2.0
MSE2220 - 100K	10	1	1	35	20	0.13	1.7
MSE2220 - 150K	15	1	1	35	17	0.21	1.4
MSE2220 - 220K	22	1	1	35	15	0.27	1.2
MSE2220 - 330K	33	1	1	35	12	0.45	0.9
MSE2220 - 470K	47	1	1	35	10	0.56	0.8
MSE2220 - 680K	68	1	1	35	7.6	0.9	0.64
MSE2220 - 101K	100	0.1	0.796	35	6.5	1.2	0.56
MSE2220 - 151K	150	0.1	0.796	40	5.0	2.7	0.42
MSE2220 - 221K	220	0.1	0.796	40	4.0	3.4	0.32
MSE2220 - 331K	330	0.1	0.796	40	3.1	6.2	0.27
MSE2220 - 471K	470	0.1	0.796	40	2.4	7.6	0.24
MSE2220 - 681K	680	0.1	0.796	40	1.9	11.3	0.19
MSE2220 - 102K	1000	0.01	0.796	40	1.7	14.4	0.15
MSE2220 - 152K	1500	0.01	0.796	40	1.2	30.1	0.10
MSE2220 - 222K	2200	0.01	0.796	40	1.1	45.0	0.09
MSE2220 - 332K	3300	0.01	0.796	40	1.0	50.0	0.08
MSE2220 - 472K	4700	0.01	0.796	40	0.8	61.0	0.07
MSE2220 - 682K	6800	0.01	0.796	40	0.7	100.0	0.06