SMT Power Inductors - MSE Series

Meisongbei



Features

- Core Material: Ferrite
- High rated current and low DCR
- RoHS, Halogen Free and REACH compliance

General Specifications

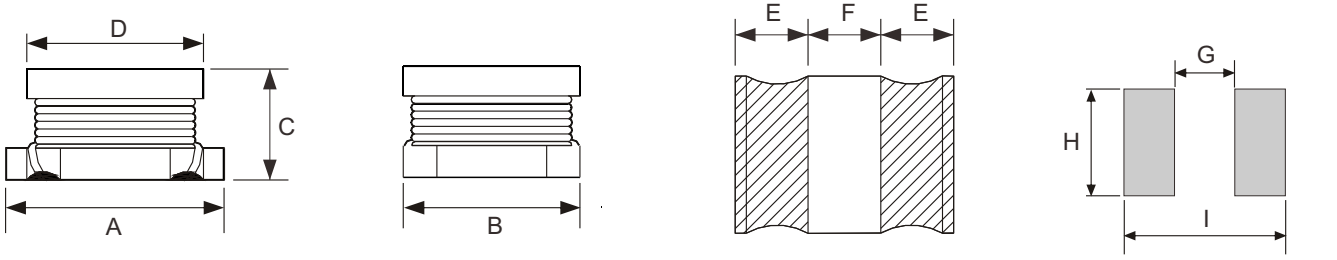
- Storage temp range: -40°C to +80°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

Package

- MSE1210 - 3000 PCS/Reel
- MSE1812 - 2000 PCS/Reel
- MSE2220 - 1000 PCS/Reel

RoHS COMPLIANT | REACH COMPLIANT | Halogen Free

Dimensions & Configurations (Unit:mm)



Type	A ± 0.3	B ± 0.3	C ± 0.3	D ± 0.2	E ± 0.3	F ± 0.2	G ± 0.2	H ± 0.2	I ± 0.2
MSE1210	3.2	2.5	2.0	2.5	0.9	1.3	0.8	2.7	4.4
MSE1812	4.5	3.2	2.6	3.2	1.0	1.0	1.0	3.5	5.9
MSE2220	5.7	5.0	4.7	5.0	1.3	1.7	1.8	5.5	7.5

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]
MSE1210-1R0M	1.0	1	1	20	100	0.5	445
MSE1210-1R2M	1.2	1	1	20	100	0.6	425
MSE1210-1R5M	1.5	1	1	20	75	0.6	400
MSE1210-1R8M	1.8	1	1	20	60	0.7	390
MSE1210-2R2M	2.2	1	1	20	50	0.8	370
MSE1210-2R7M	2.7	1	1	20	43	0.9	320
MSE1210-3R3M	3.3	1	1	20	38	1.0	300
MSE1210-3R9M	3.9	1	1	20	35	1.1	290
MSE1210-4R7M	4.7	1	1	20	31	1.2	270
MSE1210-5R6M	5.6	1	1	20	28	1.3	250
MSE1210-6R8M	6.8	1	1	20	25	1.5	240
MSE1210-8R2M	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
MSE1210-121K	120	1	0.796	40	7.5	8.0	75
MSE1210-151K	150	1	0.796	40	7	9.3	70
MSE1210-181K	180	1	0.796	40	6	10.2	65
MSE1210-221K	220	1	0.796	40	6	11.8	65
MSE1210-271K	270	1	0.796	40	5	12.5	65
MSE1210-331K	330	1	0.796	40	5	13	65
MSE1210-391K	390	1	0.796	50	5	22	50
MSE1210-471K	470	1	0.796	50	5	25	45
MSE1210-561K	560	1	0.796	50	5	28	40

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	1.0	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
MSE1812-4R7M	4.7	1	1	30	38	0.40	500
MSE1812-5R6M	5.6	1	1	30	35	0.47	500
MSE1812-6R8M	6.8	1	1	30	32	0.50	500
MSE1812-8R2M	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	0.73	390
MSE1812-180K	18	1	1	35	17	0.82	370
MSE1812-220K	22	1	1	35	15	0.94	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	6.8	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	5.0	4.5	135
MSE1812-221K	220	1	0.796	40	4.5	5.4	125
MSE1812-271K	270	1	0.796	40	4.0	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	1	0.796	40	3.0	11.8	80
MSE1812-561K	560	1	0.796	40	2.7	14.5	70
MSE1812-681K	680	1	0.796	40	2.5	17.0	65
MSE1812-821K	820	1	0.796	40	2.2	20.5	60
MSE1812-102K	1000	1	0.252	40	2.0	25.0	50

Electrical Characteristics For MSE2220 Series

Part Number	L [μH]	L Test Freq	SRF [MHz]	DCR(max) [Ω]	IDC(max) [A]
MSE2220-1R0M	1.0	1MHz	150	0.03	4.0
MSE2220-2R2M	2.2	1MHz	80	0.05	3.2
MSE2220-3R3M	3.3	1MHz	40	0.06	2.9
MSE2220-4R7M	4.7	1MHz	30	0.07	2.7
MSE2220-6R8M	6.8	1MHz	25	0.12	2.0
MSE2220-100K	10	1MHz	20	0.13	1.7
MSE2220-150K	15	1MHz	17	0.23	1.4
MSE2220-220K	22	1MHz	15	0.29	1.2
MSE2220-330K	33	1MHz	12	0.46	0.9
MSE2220-470K	47	1MHz	10	0.58	0.8
MSE2220-680K	68	1MHz	7.6	0.96	0.64
MSE2220-101K	100	100KHz	6.5	1.25	0.56
MSE2220-151K	150	100KHz	5.0	2.70	0.42
MSE2220-221K	220	100KHz	4.0	3.40	0.32
MSE2220-331K	330	100KHz	3.1	6.20	0.27
MSE2220-471K	470	100KHz	2.4	7.65	0.24
MSE2220-681K	680	100KHz	1.9	11.3	0.19
MSE2220-102K	1000	10KHz	1.7	14.4	0.15
MSE2220-152K	1500	10KHz	1.2	30.1	0.10
MSE2220-222K	2200	10KHz	1.1	45.0	0.09
MSE2220-332K	3300	10KHz	1.0	50.0	0.08
MSE2220-472K	4700	10KHz	0.8	61.0	0.07
MSE2220-682K	6800	10KHz	0.7	100	0.06