

SMD Power Square Inductor

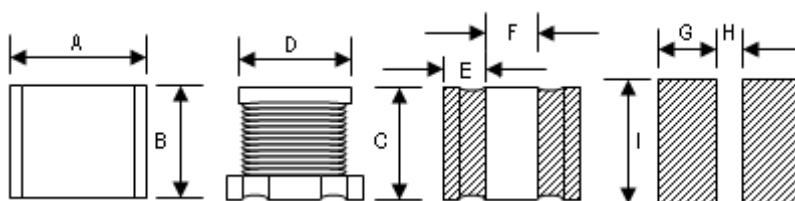
Application Field

- Personal computers.
- Disk Drives and computer peripherals.
- Pagers, Cordless phone.
- DC power supply circuit

Features

- Low DC resistance, high current capacity, and high impedance characteristics.
- Excellent solder heat resistance. Both flow and reflow soldering methods can be employed.

Dimensions and footprint (Unit : mm)



Unit : mm

Size	A	B	C	D	E	F	G	H	I
MSI-2015	2.00±0.3	1.50±0.2	1.70±0.3	1.50±0.2	0.40 ref	1.00 ref	0.90	0.60	1.60
MSI-3216	3.20±0.3	1.60±0.3	1.80±0.4	2.30±0.3	0.60 ref	1.30 ref	1.50	1.00	2.60
MSI-3225	3.20±0.3	2.50±0.3	2.00±0.4	2.50±0.3	0.90 ref	1.30 ref	1.50	1.00	4.50
MSI-4532	4.50±0.3	3.20±0.3	2.60±0.4	3.60±0.3	1.00 ref	1.60 ref	2.00	1.50	5.50
MSI-5750	5.70±0.3	5.00±0.3	4.70±0.5	5.00±0.3	1.30 ref	1.70 ref	2.00	1.70	7.00

Part Number Code

MSI - 3225 - 680 K
 1 2 3 4

1 - Product Code

2 - Dimensions Code

3 - Inductance = Decimal Point

4 - Tolerance : K = ±10%、L = ±15%、M = ±20%、N = +40% / -20%

Specification

Part No.	Inductance (μH)	Inductance Freq.(Hz)	DC Resistance(Ω) max	Permissible DCCurrent (mA)max
MSI-2015-1R0	1.0	1MHz	0.260	650
MSI-2015-2R2	2.2	1MHz	0.520	500
MSI-2015-3R3	3.3	1MHz	0.650	480
MSI-2015-4R7	4.7	1MHz	0.780	300
MSI-2015-5R6	5.6	1MHz	0.840	280
MSI-2015-6R8	6.8	1MHz	1.300	250
MSI-2015-8R6	8.6	1MHz	1.520	230
MSI-2015-100	10	1MHz	1.620	200
MSI-2015-150	15	1MHz	2.010	150
MSI-2015-220	22	1MHz	3.770	100

Part No.	Inductance (μH)	Inductance Freq.(Hz)	DC Resistance(Ω) max	Self Resistance Freq. (Hz)min	Permissible DCCurrent (mA)max
MSI-3216-R12	0.12	1MHz	0.112	250	970
MSI-3216-R22	0.22	1MHz	0.140	250	850
MSI-3216-R47	0.47	1MHz	0.210	180	700
MSI-3216-1R0	1.0	1MHz	0.364	100	510
MSI-3216-2R2	2.2	1MHz	0.533	50	430
MSI-3216-4R7	4.7	1MHz	0.845	31	340
MSI-3216-100	10	1MHz	1.690	20	230
MSI-3216-220	22	1MHz	3.900	14	160
MSI-3216-470	47	1MHz	10.40	10	100
MSI-3216-101	100	1MHz	15.60	7	80

Part No.	Inductance (μH)	Inductance Freq.(Hz)	DC Resistance(Ω) max	Self Resistance Freq. (Hz)min	Permissible DCCurrent (mA)max
MSI-3225-1R0	1.0	1MHz	0.078	96	600
MSI-3225-2R2	2.2	1MHz	0.126	64	600
MSI-3225-4R7	4.7	1MHz	0.160	43	450
MSI-3225-100	10	1MHz	0.390	26	300
MSI-3225-220	22	1MHz	0.923	19	250
MSI-3225-330	33	1MHz	1.200	15	170
MSI-3225-470	47	1MHz	1.690	10	100
MSI-3225-101	100	1MHz	4.550	6.8	70
MSI-3225-221	220	1MHz	12.00	5.6	60
MSI-3225-391	390	1MHz	23.00	5.0	60
MSI-3225-471	470	1MHz	26.00	5.0	60
MSI-3225-561	560	1KHz	30.00	5.0	60

Part No.	Inductance (μH)	Inductance Freq.(Hz)	DC Resistance(Ω) max	Self Resistance Freq. (Hz)min	Permissible DCCurrent (mA)max
MSI-4532-1R0	1.0	1MHz	0.080	100	1080
MSI-4532-1R5	1.5	1MHz	0.090	85	1000
MSI-4532-2R2	2.2	1MHz	0.110	60	900
MSI-4532-3R3	3.3	1MHz	0.130	47	800
MSI-4532-4R7	4.7	1MHz	0.150	35	750
MSI-4532-6R8	6.8	1MHz	0.200	30	720
MSI-4532-100	10	1MHz	0.240	23	650
MSI-4532-150	15	1MHz	0.320	20	570
MSI-4532-220	22	1MHz	0.600	15	420
MSI-4532-330	33	1MHz	1.000	12	310
MSI-4532-470	47	1MHz	1.100	10	280
MSI-4532-680	68	1MHz	1.700	8.4	220
MSI-4532-101	100	1MHz	2.200	6.8	190
MSI-4532-151	150	1MHz	3.500	5.5	130
MSI-4532-221	220	1MHz	4.000	4.5	110
MSI-4532-331	330	1MHz	6.800	3.6	100
MSI-4532-471	470	1MHz	8.500	3.0	90

Part No.	Inductance (μH)	Inductance Freq.(Hz)	DC Resistance(Ω) max	Self Resistance Freq. (Hz)min	Permissible DCCurrent (mA)max
MSI-5750-R12	0.12	1MHz	0.001	450	6000
MSI-5750-R22	0.22	1MHz	0.012	300	5300
MSI-5750-R47	0.47	1MHz	0.019	200	4800
MSI-5750-1R0	1.0	1MHz	0.027	150	4000
MSI-5750-1R5	1.5	1MHz	0.031	110	3700
MSI-5750-2R2	2.2	1MHz	0.041	80	3200
MSI-5750-3R3	3.3	1MHz	0.050	40	2900
MSI-5750-4R7	4.7	1MHz	0.057	30	2700
MSI-5750-6R8	6.8	1MHz	0.104	25	2000
MSI-5750-100	10	1MHz	0.130	20	1700
MSI-5750-150	15	1MHz	0.210	17	1400
MSI-5750-220	22	1MHz	0.266	15	1200
MSI-5750-330	33	1MHz	0.448	12	900
MSI-5750-470	47	1MHz	0.560	10	800
MSI-5750-680	68	1MHz	0.938	7.6	640
MSI-5750-101	100	100KHz	1.204	6.5	560
MSI-5750-151	150	100KHz	2.660	5.0	420
MSI-5750-221	220	100KHz	3.360	4.0	320
MSI-5750-331	330	100KHz	6.160	3.1	270

Part No.	Inductance (μ H)	Inductance Freq.(Hz)	DC Resistance(Ω) max	Self Resistance Freq. (Hz)min	Permissible DCCurrent (mA)max
MSI-5750-471	470	100KHz	7.560	2.4	240
MSI-5750-680	680	100KHz	1.134	1.9	190
MSI-5750-102	1000	10KHz	1.442	1.7	150
MSI-5750-222	2200	10KHz	3.010	1.2	100
MSI-5750-472	4700	10KHz	6.104	0.8	70
MSI-5750-103	10000	10KHz	1.400	0.5	50