SMD Power Inductors

Application Field

Notebook, DC/DC converter, handheld devise, VGA card

Features

- Open Magnetic circuit construction
- Compact and thin
- Large Current and Low DCR (MDJ1807)

Dimensions and footprint (Unit：mm)

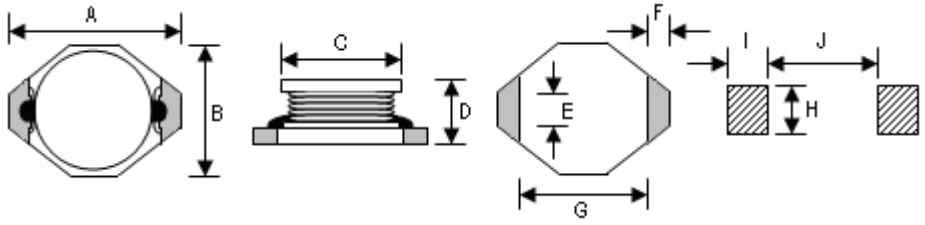

Fig-1
Ceramic

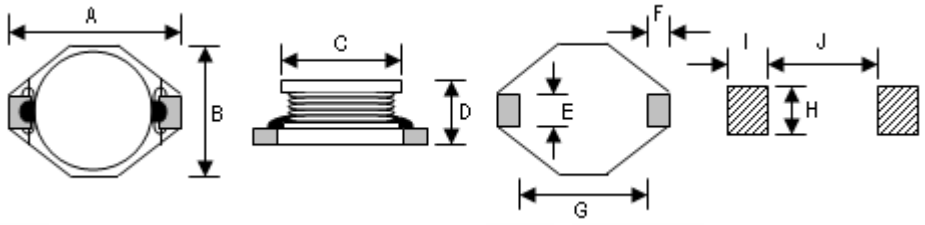

Fig-2
Plastic

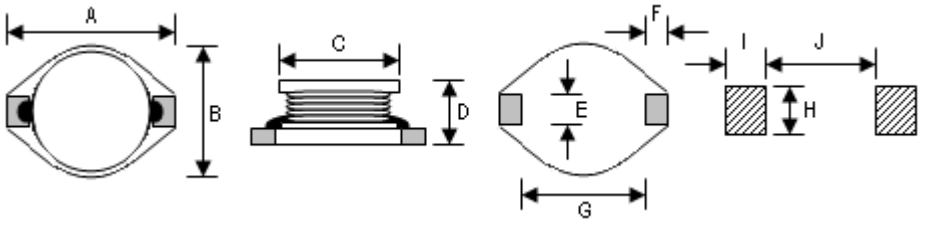

Fig-3
Plastic

Unit : mm

Size	A	B	C	D	E	F	G	H	I	J	Fig
MDJ-0603	6.60 max	4.45 max	4.32±0.3	2.92 max	1.27	0.76	4.32	3.05	1.15	4.47	1
MDJ-1303	13.50 max	9.50 max	7.80±0.5	3.20 max	2.54	2.54	7.80	2.80	3.00	7.37	2
MDJ-1305	13.50 max	9.50 max	7.80±0.5	5.50 max	2.54	2.54	7.80	2.80	3.00	7.37	2
MDJ-1311	13.50 max	9.50 max	7.80±0.5	11.50 max	2.54	2.54	7.80	2.80	3.00	7.37	2
MDJ-1807	18.50 max	15.50 max	13.50±0.5	7.50 max	2.54	2.54	13.50	2.80	3.00	12.50	3

Part Number Code

MDJ	-	0603	-	680	M
1		2		3	4

1、Product Code

2、Dimensions Code

3、Inductance = Decimal Point

4、Tolerance：M = ±20%

Specification

Part No.	Inductance (μH)	Freq. (Hz)	DCR(Ω) max	IDC(A) max
MDJ-0603-1R0	1.0	100KHz	0.050	2.900
MDJ-0603-1R5	1.5	100KHz	0.050	2.600
MDJ-0603-2R2	2.2	100KHz	0.070	2.300
MDJ-0603-3R3	3.3	100KHz	0.080	2.000
MDJ-0603-4R7	4.7	100KHz	0.090	1.500
MDJ-0603-6R8	6.8	100KHz	0.130	1.200
MDJ-0603-100	10	100KHz	0.160	1.100
MDJ-0603-150	15	100KHz	0.230	0.900
MDJ-0603-220	22	100KHz	0.370	0.700
MDJ-0603-330	33	100KHz	0.510	0.580
MDJ-0603-470	47	100KHz	0.640	0.500
MDJ-0603-680	68	100KHz	0.860	0.400
MDJ-0603-101	100	100KHz	1.270	0.310
MDJ-0603-151	150	100KHz	2.000	0.270
MDJ-0603-221	220	100KHz	3.110	0.220
MDJ-0603-331	330	100KHz	3.800	0.180
MDJ-0603-471	470	100KHz	5.060	0.160
MDJ-0603-681	680	100KHz	9.200	0.140
MDJ-0603-102	1000	100KHz	13.80	0.100

Part No.	Inductance (μH)	Freq. (Hz)	DCR(Ω) max	IDC(A) max
MDJ-1303-100	10	100KHz	0.110	2.400
MDJ-1303-150	15	100KHz	0.150	2.000
MDJ-1303-220	22	100KHz	0.230	1.600
MDJ-1303-330	33	100KHz	0.300	1.400
MDJ-1303-470	47	100KHz	0.390	1.000
MDJ-1303-680	68	100KHz	0.660	0.900
MDJ-1303-101	100	100KHz	0.840	0.700
MDJ-1303-151	150	100KHz	1.200	0.600

Part No.	Inductance (μH)	Freq. (Hz)	DCR(Ω) max	IDC(A) max
MDJ-1303-221	220	100KHz	1.900	0.500
MDJ-1303-331	330	100KHz	2.700	0.400
MDJ-1303-471	470	100KHz	4.000	0.300
MDJ-1303-681	680	100KHz	5.300	0.200
MDJ-1303-102	1000	100KHz	8.400	0.100

Part No.	Inductance (μH)	Freq. (Hz)	DCR(Ω) max	IDC(A) max
MDJ-1305-1R0	1.0	100KHz	0.009	9.000
MDJ-1305-1R5	1.5	100KHz	0.010	8.000
MDJ-1305-2R2	2.2	100KHz	0.012	7.000
MDJ-1305-3R3	3.3	100KHz	0.015	6.400
MDJ-1305-4R7	4.7	100KHz	0.018	5.400
MDJ-1305-6R8	6.8	100KHz	0.027	4.600
MDJ-1305-100	10	100KHz	0.038	3.800
MDJ-1305-150	15	100KHz	0.046	3.000
MDJ-1305-220	22	100KHz	0.085	2.600
MDJ-1305-330	33	100KHz	0.100	2.000
MDJ-1305-470	47	100KHz	0.140	1.600
MDJ-1305-680	68	100KHz	0.200	1.400
MDJ-1305-101	100	100KHz	0.280	1.200
MDJ-1305-151	150	100KHz	0.400	1.000
MDJ-1305-221	220	100KHz	0.610	0.800
MDJ-1305-331	330	100KHz	1.020	0.600
MDJ-1305-471	470	100KHz	1.270	0.500
MDJ-1305-681	680	100KHz	2.020	0.400
MDJ-1305-102	1000	100KHz	3.000	0.300

Part No.	Inductance (μH)	Freq. (Hz)	DCR(Ω) max	IDC(A) max
MDJ-1311-100	10	100KHz	0.040	8.000
MDJ-1311-150	15	100KHz	0.050	7.000
MDJ-1311-220	22	100KHz	0.066	5.500
MDJ-1311-330	33	100KHz	0.080	4.000
MDJ-1311-470	47	100KHz	0.110	3.800
MDJ-1311-680	68	100KHz	0.170	3.000
MDJ-1311-101	100	100KHz	0.220	2.500
MDJ-1311-151	150	100KHz	0.340	2.000
MDJ-1311-221	220	100KHz	0.440	1.600
MDJ-1311-331	330	100KHz	0.700	1.200
MDJ-1311-471	470	100KHz	0.950	1.000
MDJ-1311-681	680	100KHz	1.200	1.000

Part No.	Inductance (μH)	Freq. (Hz)	DCR(Ω) max	IDC(A) max
MDJ-1807-1R0	1.0	100KHz	0.009	20.000
MDJ-1807-2R2	2.2	100KHz	0.014	16.000
MDJ-1807-3R3	3.3	100KHz	0.015	14.000
MDJ-1807-5R6	5.6	100KHz	0.020	12.000
MDJ-1807-100	10	100KHz	0.031	10.000
MDJ-1807-150	15	100KHz	0.036	8.000
MDJ-1807-220	22	100KHz	0.047	7.000
MDJ-1807-330	33	100KHz	0.066	5.500
MDJ-1807-470	47	100KHz	0.086	4.500
MDJ-1807-680	68	100KHz	0.130	3.500
MDJ-1807-101	100	100KHz	0.190	3.000
MDJ-1807-151	150	100KHz	0.250	2.600
MDJ-1807-221	220	100KHz	0.380	2.400
MDJ-1807-331	330	100KHz	0.560	1.900
MDJ-1807-471	470	100KHz	0.850	1.400
MDJ-1807-681	680	100KHz	1.100	1.200
MDJ-1807-102	1000	100KHz	1.800	1.000