MTC SMD Power Inductors

SDIA 252018 Series

Part No	L(μH)	RDC(Ω)Max	IDC (mA)Min
SDIA 252018-R22	0.22	0.032	350
SDIA 252018-R39	0.39	0.042	330
SDIA 252018-1R0	1.0	0.078	300
SDIA 252018-1R2	1.2	0.09	290
SDIA 252018-1R5	1.5	0.10	280
SDIA 252018-1R8	1.8	0.11	270
SDIA 252018-2R2	2.2	0.12	250
SDIA 252018-2R7	2.7	0.20	240
SDIA 252018-3R3	3.3	0.24	230
SDIA 252018-3R9	3.9	0.28	220
SDIA 252018-4R7	4.7	0.30	210
SDIA 252018-5R6	5.6	0.34	205
SDIA 252018-6R8	6.8	0.44	200
SDIA 252018-8R2	8.2	0.59	195
SDIA 252018-100	10	0.68	190
SDIA 252018-120	12	0.77	185
SDIA 252018-150	15	0.87	180
SDIA 252018-180	18	1.20	175
SDIA 252018-220	22	1.34	170
SDIA 252018-270	27	1.86	165
SDIA 252018-330	33	2.10	160
SDIA 252018-390	39	2.35	155
SDIA 252018-470	47	3.30	155
SDIA 252018-560	56	3.70	145
SDIA 252018-680	68	6.00	135
SDIA 252018-820	82	6.90	125
SDIA 252018-101	100	7.75	110
SDIA 252018-221	220	13.42	90
SDIA 252018-561	560	53.76	53

SDIA 252018-xxxK-E , Code "-E" : Lead free process and RoHs compliant

Inductance tolerance : N±30% M±20% L±15% K±10% J±5% IDC : △ L / L (0A)≦10%

Frequency : 0.22μH ~ 8.2μH @ 100KHz / 0.25V, 10μH ~ 560μH/ 1KHz / 0.25V

MOTOCRAFT Tel:886-2-22701463 Fax:886-2-22653969 Email:mtc@motocraft.com http://www.motocraft.com.

MTC

SDIA Series SMD Power Choke

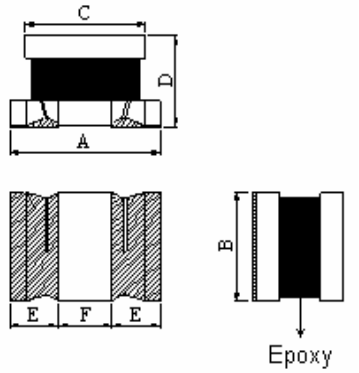
Application Field

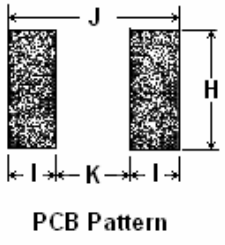
- Personal computers.
- Disk Drives and computor peripherals.
- DC Power supply circuit.
- For Small DC-DC converter (cellular phone, HDD,DVC,DSC,PDA,LCD disply etc)

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)

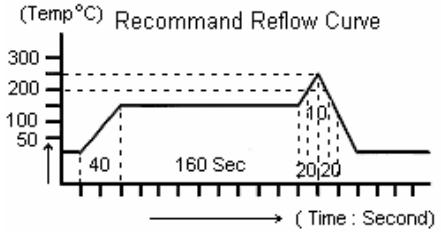




Type	A	B	C	D	E	F	H	J	K
SDIA201514	2.0 ± 0.3	1.7 ± 0.3	1.5 ± 0.3	1.4 ± 0.4	1.0min	0.5min	2.1	2.7	0.8
SDIA201609	2.0 ± 0.3	1.6± 0.3	2.0± 0.3	0.9± 0.2	0.6ref	0.8ref	2.2	2.6	0.6
SDIA252018	2.5 ± 0.3	2.0 ± 0.3	2.0 ± 0.3	1.8 ± 0.2	1.2min	0.6min	2.6	3.2	1.1
SDIA321618	3.2 ± 0.3	1.6 ± 0.2	2.3 ± 0.2	1.8 ± 0.4	0.9min	1.3min	2.1	3.9	1.0
SDIA322516	3.2 ± 0.3	2.5 ± 0.2	2.5 ± 0.2	1.6 ± 0.4	0.9min	1.3min	3.0	3.9	1.0
SDIA322520	3.2 ± 0.3	2.5 ± 0.2	2.5 ± 0.2	2.0 ± 0.4	0.9min	1.3min	3.0	3.9	1.0
SDIA3225C	3.2 ± 0.3	2.5 ± 0.2	2.5 ± 0.2	2.0 ± 0.4	0.9min	1.3min	3.0	3.9	1.0
SDIA453226	4.5 ± 0.3	3.2 ± 0.2	3.6 ± 0.2	2.6 ± 0.4	1.4ref	1.7ref	3.7	5.2	1.0
SDIA4532C	4.5 ± 0.3	3.2 ± 0.2	3.6 ± 0.2	2.6 ± 0.4	1.4ref	1.7ref	3.7	5.2	1.0
SDIA565016	5.7 ± 0.3	5.0 ± 0.2	5.0 ± 0.2	1.6 ± 0.3	1.7ref	2.0ref	5.6	6.4	1.5

General Specification:

1. Storage temp: -40°C ~ +125°C
2. Operating temp: -25°C ~ +105°C
3. Resistance to solder heat : 250°C 10secs



MOTOCRAFT Tel:886-2-22701463 Fax:886-2-22653969 Email:mtc@motocraft.com http://www.motocraft.com.

MTC SMD Power Inductors

SDIA 321618 Series

Part No	L(μH)	RDC(Ω)Max	IDC (A)Min
SDIA321618-R10	0.10	0.11	185
SDIA321618-R12	0.12	0.13	184
SDIA321618-R22	0.22	0.14	183
SDIA321618-R29	0.29	0.15	182
SDIA321618-R47	0.47	0.17	178
SDIA321618-R50	0.50	0.18	176
SDIA321618-1R0	1.0	0.49	175
SDIA321618-1R2	1.2	0.50	165
SDIA321618-1R5	1.5	0.52	155
SDIA321618-1R8	1.8	0.53	150
SDIA321618-2R2	2.2	0.54	140
SDIA321618-2R7	2.7	0.55	135
SDIA321618-3R3	3.3	0.61	130
SDIA321618-3R9	3.9	1.50	125
SDIA321618-4R7-1	4.7	0.65	340
SDIA321618-4R7	4.7	1.70	120
SDIA321618-5R6	5.6	1.80	115
SDIA321618-6R8	6.8	2.00	110
SDIA321618-8R2	8.2	2.20	105
SDIA321618-100-1	10	1.69	230
SDIA321618-100-2	10	2.50	100
SDIA321618-100	10	2.50	100
SDIA321618-110	11	2.60	97
SDIA321618-120	12	2.70	95
SDIA321618-150	15	2.90	90
SDIA321618-180	18	3.00	85
SDIA321618-220	22	3.10	85
SDIA321618-270	27	3.40	85
SDIA321618-330	33	3.80	80
SDIA321618-390	39	4.50	85
SDIA321618-470	47	6.30	85
SDIA321618-560	56	7.10	50
SDIA321618-680	68	7.90	50
SDIA321618-820	82	8.70	45
SDIA321618-101	100	11.57	45
SDIA321618-111	110	13.00	25
SDIA321618-151	150	15.03	15
SDIA321618-181	180	16.60	13
SDIA321618-211	210	23.00	13
SDIA321618-221	220	26.46	12
SDIA321618-271	270	29.70	11
SDIA321618-331	330	43.06	10
SDIA321618-471	470	53.50	8
SDIA321618-821	820	66.10	5

SDI 321618-xxxK-E , Code "-E" : Lead free process and RoHs compliant

Inductance tolerance : N±30% M±20% L±15% K±10% J±5% IDC : △ L / L (0A)≦10%

MOTOCRAFT Tel:886-2-22701463 Fax:886-2-22653969 Email:mtc@motocraft.com http://www.motocraft.com.

MTC SMD Power Inductors

SDIA 322520 Series

Part No	L(μH)	RDC(Ω)Max	IDC (A)Min
SDIA322520-R10	0.10	0.25	0.70
SDIA322520-R18	0.18	0.25	0.65
SDIA322520-R27	0.27	0.25	0.60
SDIA322520-R29	0.29	0.25	0.56
SDIA322520-R33	0.33	0.25	0.55
SDIA322520-R39	0.39	0.25	0.53
SDIA322520-R56	0.56	0.25	0.53
SDIA322520-R68	0.68	0.25	0.47
SDIA322520-R82	0.82	0.25	0.45
SDIA322520-1R0	1.0	0.50	0.45
SDIA322520-1R2	1.2	0.60	0.43
SDIA322520-1R5	1.5	0.60	0.40
SDIA322520-1R8	1.8	0.70	0.39
SDIA322520-2R2	2.2	0.80	0.37
SDIA322520-2R7	2.7	0.90	0.32
SDIA322520-3R3	3.3	1.00	0.30
SDIA322520-3R9	3.9	1.10	0.29
SDIA322520-4R7	4.7	1.20	0.27
SDIA322520-5R6	5.6	1.30	0.25
SDIA322520-6R8	6.8	1.50	0.24
SDIA322520-8R2	8.2	1.60	0.225
SDIA322520-100	10	1.80	0.190
SDIA322520-120	12	2.00	0.180
SDIA322520-150	15	2.20	0.170
SDIA322520-180	18	2.50	0.160
SDIA322520-220	22	2.80	0.150
SDIA322520-270	27	3.10	0.125
SDIA322520-330	33	3.50	0.115
SDIA322520-390	39	3,90	0.110
SDIA322520-470	47	4.30	0.100
SDIA322520-560	56	4.90	0.085
SDIA322520-680	68	5.50	0.080
SDIA322520-820	82	6.20	0.080
SDIA322520-101	100	7.00	0.080
SDIA322520-121	120	8.00	0.075
SDIA322520-151	150	9.30	0.070
SDIA322520-181	180	10.20	0.065
SDIA322520-221	220	11,8	0.065
SDIA322520-271	270	12.50	0.065
SDIA322520-331	330	13.00	0.065
SDIA322520-391	390	22.00	0.050
SDIA322520-471	470	25.00	0.045
SDIA322520-501	500	27.00	0.042
SDIA322520-551	550	28.00	0.041
SDIA322520-561	560	28.00	0.040
SDIA322520-681	680	30.00	0.035
SDIA322520-821	820	33.00	0.030
SDIA322520-102	1000	39.00	0.030
SDIA322520-222	2200	106.00	0.010

SDI 322520-xxxK-E , Code "-E" : Lead free process and RoHs compliant

Inductance tolerance : N±30% M±20% L±15% K±10% J±5% IDC : △ L / L (0A)≦10%

MOTOCRAFT Tel:886-2-22701463 Fax:886-2-22653969 Email:mtc@motocraft.com http://www.motocraft.com.

MTC SMD Power Inductors

SDIA 453226 Series

Part No	L(μH)	RDC(Ω)Max	IDC (mA)Min
SDIA453226-1R0	1.0	0.20	500
SDIA453226-1R2	1.2	0.20	500
SDIA453226-1R5	1.5	0.30	500
SDIA453226-1R8	1.8	0.30	500
SDIA453226-2R2	2.2	0.30	500
SDIA453226-2R7	2.7	0.32	500
SDIA453226-3R3	3.3	0.35	500
SDIA453226-3R9	3.9	0.38	500
SDIA453226-4R7	4.7	0.40	500
SDIA453226-5R6	5.6	0.47	500
SDIA453226-6R8	6.8	0.50	450
SDIA453226-8R2	8.2	0.56	450
SDIA453226-100	10	0.56	400
SDIA453226-120	12	0.62	380
SDIA453226-130	13	0.68	370
SDIA453226-150	15	0.73	360
SDIA453226-180	18	0.82	340
SDIA453226-220	22	0.94	320
SDIA453226-270	27	1.10	300
SDIA453226-330	33	1.20	270
SDIA453226-390	39	1.40	240
SDIA453226-470	47	1.90	220
SDIA453226-560	56	1.70	200
SDIA453226-680	68	1.90	180
SDIA453226-820	82	2.20	170
SDIA453226-101	100	2.50	160
SDIA453226-121	120	3.00	150
SDIA453226-151	150	3.70	130
SDIA453226-181	180	4.50	120
SDIA453226-221	220	5.40	110
SDIA453226-271	270	6.80	100
SDIA453226-331	330	8.20	95
SDIA453226-391	390	9.70	90
SDIA453226-471	470	11.80	80
SDIA453226-561	560	14.50	70
SDIA453226-681	680	17.00	65
SDIA453226-821	820	20.50	60
SDIA453226-102	1000	25.00	50
SDIA453226-122	1200	30.00	45
SDIA453226-152	1500	37.00	40
SDIA453226-182	1800	45.00	35
SDIA453226-202	2000	49.00	34
SDIA453226-222	2200	50.00	30
SDIA453226-502	5000	156.60	20
SDIA453226-103	10000	285	15

SDIA 453226-xxxK-E , Code "-E" : Lead free process and RoHs compliant

Inductance tolerance : N±30% M±20% L±15% K±10% J±5% IDC : △ L / L (0A)≦10%

Frequency : 0.10μH ~ 8.2μH @ 100KHz / 0.25V, 10μH ~ 5000μH/ 1KHz / 0.25V

MOTOCRAFT Tel:886-2-22701463 Fax:886-2-22653969 Email:mtc@motocraft.com http://www.motocraft.com.