

**Application Field**

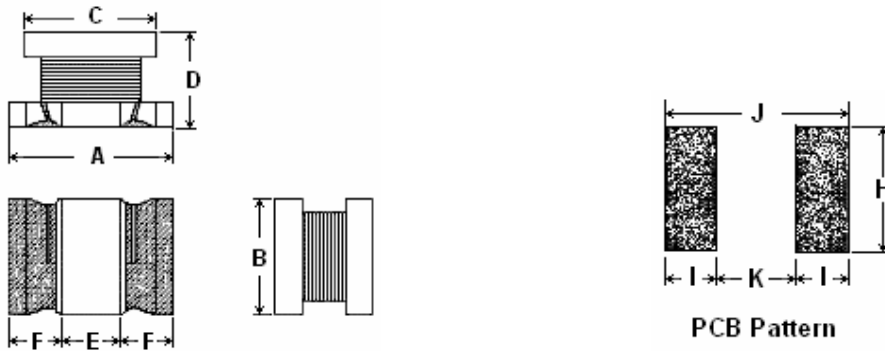
- Personal computers.
- Disk Drives and computer peripherals.
- Pagers, Cordless phone.
- DC Power supply circuit.



**Features**

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

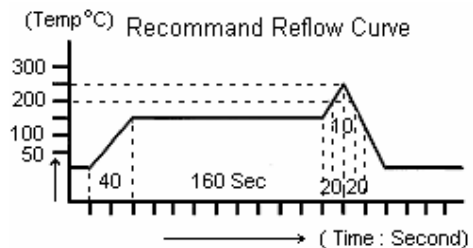
**Dimensions and footprint (unit:mm)**

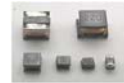


Type	A	B	C	D	E min	F min	I	J	H	K
SDI 201514	2.0 ± 0.3	1.5 ± 0.3	1.5 ± 0.3	1.4 ± 0.4	0.5	1.0	0.95	2.7	2.1	0.8
SDI 201607	2.0 ± 0.3	1.6 ± 0.3	2.0 ± 0.3	0.65 ± 0.3	0.6	0.8	1.0	2.6	2.2	0.6
SDI 201609	2.0 ± 0.3	1.6 ± 0.3	2.0 ± 0.3	0.9 ± 0.2	0.6	0.8	1.0	2.6	2.2	0.6
SDI 252016	2.5 ± 0.3	2.0 ± 0.3	2.0 ± 0.3	1.6 ± 0.2	0.6	1.3	1.05	3.2	2.6	1.1
SDI 252018	2.5 ± 0.3	2.0 ± 0.3	2.0 ± 0.3	1.8 ± 0.4	0.6	1.2	1.05	3.2	2.6	1.1
SDI 321618	3.2 ± 0.3	1.6 ± 0.2	2.3 ± 0.2	1.8 ± 0.4	1.3	0.9	1.45	3.9	3.0	1.0
SDI 322516	3.2 ± 0.3	2.5 ± 0.2	2.5 ± 0.2	1.55 ± 0.2	1.3	0.9	1.45	3.9	3.0	1.0
SDI 322520	3.2 ± 0.3	2.5 ± 0.2	2.5 ± 0.2	2.0 ± 0.4	1.3	0.9	1.4	3.9	3.0	1.0
SDI 453226	4.5 ± 0.3	3.2 ± 0.2	3.6 ± 0.2	2.6 ± 0.3	2.0	1.4	2.1	5.2	3.7	1.0
SDI 565050	5.7 ± 0.3	5.0 ± 0.3	5.0 ± 0.3	4.7 ± 0.3	2.0	1.85	2.0	6	5	2.0
SDI 3216C	3.2 ± 0.3	1.6 ± 0.2	2.3 ± 0.2	1.8 ± 0.3	1.3	0.9	1.45	3.9	2.1	1.0
SDI 3225C	3.2 ± 0.3	2.5 ± 0.2	2.5 ± 0.2	2.0 ± 0.3	1.3	0.9	1.45	3.9	3.0	1.0
SDI 4532C	4.5 ± 0.3	3.2 ± 0.2	3.6 ± 0.2	2.6 ± 0.4	1.7	1.4	2.1	5.2	3.7	1.0

**General Specification:**

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





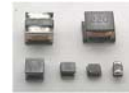
## SDI 453226 Series

Part No	L(μH)	RDC(Ω)Max	IDC (mA)Min
SDI453226-R50	0.5	0.05	2000.0
SDI453226-R80	0.8	0.10	1000.0
SDI453226-1R0-1	1.0	0.20	500
SDI453226-1R0	1.0	0.20	500
SDI453226-1R2	1.2	0.20	500
SDI453226-1R5	1.5	0.30	500
SDI453226-1R8	1.8	0.30	550
SDI453226-2R2	2.2	0.30	500
SDI453226-2R7	2.7	0.32	500
SDI453226-3R3	3.3	0.35	500
SDI453226-3R9	3.9	0.38	500
SDI453226-4R7	4.7	0.40	500
SDI453226-5R6	5.6	0.47	500
SDI453226-6R8	6.8	0.50	450
SDI453226-8R2	8.2	0.56	450
SDI453226-100	10	0.56	400
SDI453226-120	12	0.62	380
SDI453226-130	13	0.68	370
SDI453226-150	15	0.73	360
SDI453226-180	18	0.82	340
SDI453226-220	22	0.94	320
SDI453226-270	27	1.10	300
SDI453226-330	33	1.20	270
SDI453226-390	39	1.40	240
SDI453226-470	47	1.50	220
SDI453226-560	56	1.70	200
SDI453226-680	68	1.90	180
SDI453226-820	82	2.20	170
SDI453226-101	100	2.50	160
SDI453226-121	120	3.00	150
SDI453226-151	150	3.70	130
SDI453226-181	180	4.50	120
SDI453226-221	220	5.40	110
SDI453226-271	270	6.80	100
SDI453226-331	330	8.20	95
SDI453226-391	390	9.70	90
SDI453226-471	470	11.80	80
SDI453226-561	560	14.50	70
SDI453226-681	680	17.00	65
SDI453226-821	820	20.50	60
SDI453226-102	1000	25.00	50
SDI453226-122	1200	30.00	45
SDI453226-152	1500	37.00	40
SDI453226-162	1600	44.34	38
SDI453226-182	1800	45.00	35
SDI453226-202	2000	49.00	34
SDI453226-222	2200	50.00	30
SDI453226-502	5000	156.60	20
SDI453226-103	10000	285.00	15

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

Inductance tolerance : N±30% M±20% L±15% K±10% J±5% IDC :  $\Delta L / L (0A) \leq 10\%$

Frequency : 0.5μH ~ 8.2μH @ 100KHz / 0.25V, 10μH ~ 10000μH/ 1KHz / 0.25V



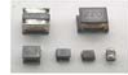
## SDI 565050 Series

Part No	L( $\mu$ H)	RDC( $\Omega$ )Max	IDC (A)Min
SDI565050-R12	0.12	0.010	6.00
SDI565050-R27	0.27	0.014	5.30
SDI565050-R47	0.47	0.018	4.80
SDI565050-1R0	1.0	0.027	4.00
SDI565050-1R5	1.5	0.031	3.70
SDI565050-2R2	2.2	0.041	3.20
SDI565050-3R3	3.3	0.050	2.90
SDI565050-4R7	4.7	0.057	2.70
SDI565050-6R8	6.8	0.10	2.00
SDI565050-100	10	0.13	1.70
SDI565050-120	12	0.20	1.50
SDI565050-150	15	0.21	1.40
SDI565050-220	22	0.27	1.20
SDI565050-240	24	0.29	1.10
SDI565050-270	27	0.30	1.00
SDI565050-330	33	0.45	0.90
SDI565050-470	47	0.56	0.80
SDI565050-680	68	0.94	0.64
SDI565050-900	90	1.19	0.58
SDI565050-101	100	1.20	0.56
SDI565050-121	120	1.85	0.49
SDI565050-151	150	2.66	0.42
SDI565050-221	220	3.36	0.32
SDI565050-331	330	6.16	0.27
SDI565050-471	470	7.56	0.24
SDI565050-681	680	11.3	19.00
SDI565050-821	820	13.0	16.00
SDI565050-102	1000	14.4	0.15
SDI565050-122	1200	18.0	0.12
SDI565050-152	1500	30.1	0.10
SDI565050-222	2200	45.0	0.09
SDI565050-242	2400	47.0	0.085
SDI565050-332	3300	50.0	0.080
SDI565050-472	4700	61.0	0.070
SDI565050-682	6800	100.0	0.060
SDI565050-822	8200	125.0	0.050
SDI565050-103	10000	140.0	0.050

**SDI 565050-xxxK-E , Code "-E" : Lead free process and RoHs compliant**

Inductance tolerance : N $\pm$ 30% M $\pm$ 20% L $\pm$ 15% K $\pm$ 10% J $\pm$ 5% IDC :  $\Delta$  L / L (0A)  $\leq$  10%

Frequency : 0.12 $\mu$ H ~ 8.2 $\mu$ H @ 100KHz / 0.25V, 10 $\mu$ H ~ 10000 $\mu$ H / 1KHz / 0.25V



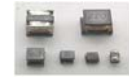
## SDI 3216C Series

Part No	L( $\mu$ H)	RDC( $\Omega$ )Max	IDC (mA)Min
SDI3216C-R12	0.1	0.112	0.970
SDI3216C-R22	0.2	0.140	0.850
SDI3216C-R33	0.3	0.160	0.800
SDI3216C-R47	0.47	0.210	0.700
SDI3216C-R68	0.7	0.260	0.060
SDI3216C-1R0	1.0	0.392	0.510
SDI3216C-2R2	2.2	0.574	0.430
SDI3216C-4R7	4.7	0.910	0.340
SDI3216C-5R6	5.6	0.950	0.330
SDI3216C-6R8	6.8	1.320	0.300
SDI3216C-8R2	8.2	1.720	0.240
SDI3216C-100	10	1.820	0.230
SDI3216C-120	12	1.920	0.200
SDI3216C-150	15	2.020	0.190
SDI3216C-180	18	2.450	0.180
SDI3216C-220	22	4.200	0.160
SDI3216C-270	27	4.500	0.150
SDI3216C-330	33	7.500	0.130
SDI3216C-470	47	10.500	0.110
SDI3216C-560	56	11.70	0.098
SDI3216C-680	68	12.00	0.095
SDI3216C-820	82	13.50	0.085
SDI3216C-101	100	16.80	0.080
SDI3216C-121	120	17.20	0.075
SDI3216C-151	151	18.20	0.070
SDI3216C-181	180	23.20	0.065
SDI3216C-221	220	25.2	0.060
SDI3216C-271	270	40.2	0.055
SDI3216C-331	390	50.2	0.050

## SDI 3216C-xxxK-E , Code "-E" : Lead free process and RoHs compliant

Inductance tolerance : N $\pm$ 30% M $\pm$ 20% L $\pm$ 15% K $\pm$ 10% J $\pm$ 5% IDC :  $\Delta$  L / L (0A)  $\leq$  10%

Frequency : 0.12 $\mu$ H ~ 8.2 $\mu$ H @ 100KHz / 0.25V, 10 $\mu$ H ~ 5390 $\mu$ H/ 1KHz / 0.25V



## SDI 3225C Series

Part No	L(μH)	RDC(Ω)Max	IDC (A)Min
SDI3225C-R15	0.2	0.090	2000
SDI3225C-R47	0.5	0.100	1400
SDI3225C-1R0	1.0	0.117	800
SDI3225C-1R8	1.8	0.140	780
SDI3225C-2R2	2.2	0.169	600
SDI3225C-2R7	2.7	0.171	550
SDI3225C-3R3	3.3	0.180	500
SDI3225C-4R7	4.7	0.260	450
SDI3225C-6R8	6.8	0.300	430
SDI3225C-8R2	8.2	0.392	400
SDI3225C-100	10	0.572	300
SDI3225C-120	12	0.650	290
SDI3225C-150	15	0.700	285
SDI3225C-180	18	0.800	265
SDI3225C-220	22	0.923	250
SDI3225C-270	27	1.100	240
SDI3225C-330	33	1.352	230
SDI3225C-470	47	1.690	170
SDI3225C-560	56	2.00	160
SDI3225C-680	68	2.67	150
SDI3225C-101	100	4.55	100
SDI3225C-151	150	5.80	95
SDI3225C-181	180	6.27	90
SDI3225C-221	220	10.9	70
SDI3225C-331	330	13.0	60
SDI3225C-391	390	22.1	60
SDI3225C-471	470	24.7	60
SDI3225C-561	560	28.6	60
SDI3225C-681	680	30.5	50
SDI3225C-821	820	35.0	35

**SDI3225C-xxxK-E , Code "-E" : Lead free process and RoHs compliant**Inductance tolerance : N±30% M±20% L±15% K±10% J±5% IDC :  $\Delta L / L (0A) \leq 10\%$ 

Frequency : 0.15μH ~ 8.2μH @ 100KHz / 0.25V, 10μH ~ 820μH / 1KHz / 0.25V