

SMD POWER INDUCTORS

Series CD - S *Shielded*



FEATURES

- ◆ Low profile and square.
- ◆ Magnetically shield and low DC resistance.
- ◆ Suitable for large currents.
- ◆ Available on tape and reel for auto-insertion.

APPLICATIONS

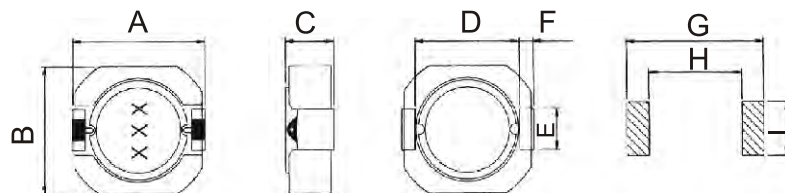
- ◆ Ideal use in variety of DC to DC converter inductor applications.
- ◆ Digital camera.
- ◆ LCD TFT television set . Monitors

PRODUCT IDENTIFICATION

$\frac{CD}{a} \quad \frac{60}{b} \quad \frac{S}{c} \quad \frac{13}{d} \quad \frac{J}{e} \quad \frac{M}{f} \quad \frac{10U}{g}$

- a : Type of products - SMD Power Inductors CD - S series.
 b : Dimension(mm) - 60 : 6.3X6.0
 c : Materials - S = With Shielded
 d : Thickness(mm) - 13 = 1.3, 18 = 1.8, 20 = 2.0, 25 = 2.5, 30 = 3.0, 35 = 3.5
 e : Packing - PCS/REEL - J = 1500, 1 = 1000
 f : Tolerance - K : $\pm 10\%$, M : $\pm 20\%$
 g : Inductance - 100N = $0.1 \mu H$, 10U = $10.0 \mu H$, 1M2 = $1200 \mu H$

SHAPES & DIMENSIONS



Unit : mm

Type	A ± 0.3	B ± 0.3	C(max)	D	E	F	G	H	I
CD60S13	6.3	6.0	1.3	4.8	2.0	0.6	6.6	4.6	2.6
CD60S18	6.3	6.0	1.8	4.8	2.0	0.6	6.6	4.6	2.6
CD60S20	6.3	6.0	2.0	4.8	2.0	0.6	6.6	4.6	2.6
CD60S25	6.3	6.0	2.5	4.8	2.0	0.6	6.6	4.6	2.6
CD60S30	6.3	6.0	3.0	4.8	2.0	0.6	6.6	4.6	2.6
CD60S35	6.3	6.0	3.5	4.8	2.0	0.6	6.6	4.6	2.6

TEST EQUIPMENT AND CONDITIONS

- ◆ Maximum allowable DC current is that which causes a 30% inductance reduction of initial value or coil temperature to rise by $40^{\circ}C$.Whichever is smaller. (Referance ambient temperature $20^{\circ}C$)
- ◆ Operating temperature : $-25^{\circ}C + 85^{\circ}C$

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ELECTRICAL CHARACTERISTICS

TEST FREQUENCY 0.8uH ~ 8.2uH @ 100KHz / 0.25V 10uH ~ 10000uH @ 1KHz / 0.25V

Part Number	Inductance L (μ H)	RDC (Ω) max.	IDC (A) max.
CD60S13J□1U	1.0	0.051	2.30
CD60S13J□1U2	1.2	0.063	2.10
CD60S13J□1U5	1.5	0.067	1.92
CD60S13J□1U8	1.8	0.081	1.83
CD60S13J□2U	2.0	0.09	1.75
CD60S13J□2U5	2.5	0.107	1.65
CD60S13J□3U	3.0	0.136	1.58
CD60S13J□3U3	3.3	0.153	1.47
CD60S13J□3U9	3.9	0.173	1.42
CD60S13J□4U7	4.7	0.19	1.28
CD60S13J□5U6	5.6	0.245	1.15
CD60S13J□6U8	6.8	0.27	1.00
CD60S13J□8U2	8.2	0.34	0.96
CD60S13J□10U	10	0.4	0.88
CD60S13J□12U	12	0.49	0.80
CD60S13J□15U	15	0.6	0.73
CD60S13J□18U	18	0.7	0.65
CD60S13J□22U	22	0.8	0.55
CD60S13J□27U	27	1	0.53
CD60S13J□33U	33	1.3	0.48
CD60S13J□39U	39	1.56	0.40
CD60S13J□47U	47	1.97	0.37
CD60S13J□56U	56	2.26	0.32
CD60S13J□68U	68	2.96	0.29
CD60S13J□82U	82	3.65	0.27
CD60S13J□100U	100	4.09	0.26
CD60S13J□120U	120	5	0.22
CD60S13J□150U	150	7.24	0.20
CD60S13J□180U	180	7.96	0.19
CD60S13J□220U	220	9.93	0.18
CD60S13J□270U	270	11.5	0.14
CD60S13J□330U	330	13.86	0.14
CD60S13J□390U	390	15.58	0.13
CD60S18J□1U	1.0	0.037	2.54
CD60S18J□1U5	1.5	0.05	2.41
CD60S18J□2U	2.0	0.065	2.17
CD60S18J□2U2	2.2	0.071	1.98
CD60S18J□2U7	2.7	0.086	1.85
CD60S18J□3U	3.0	0.09	1.77
CD60S18J□3U3	3.3	0.105	1.68
CD60S18J□3U5	3.5	0.112	1.61
CD60S18J□3U9	3.9	0.124	1.47
CD60S18J□4U7	4.7	0.144	1.39
CD60S18J□5U6	5.6	0.162	1.2
CD60S18J□6U8	6.8	0.182	1.16
CD60S18J□8U2	8.2	0.21	1
CD60S18J□10U	10	0.28	0.92
CD60S18J□12U	12	0.296	0.87
CD60S18J□15U	15	0.411	0.76
CD60S18J□18U	18	0.532	0.70
CD60S18J□22U	22	0.593	0.65
CD60S18J□27U	27	0.77	0.58
CD60S18J□33U	33	0.96	0.51
CD60S18J□39U	39	1.036	0.48

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Part Number	Inductance L (μ H)	RDC (Ω) max.	IDC (A) max.
CD60S18J□47U	47	1.29	0.44
CD60S18J□56U	56	1.51	0.4
CD60S18J□68U	68	1.94	0.37
CD60S18J□82U	82	2.32	0.33
CD60S18J□100U	100	2.69	0.31
CD60S18J□120U	120	3.28	0.28
CD60S18J□150U	150	4.3	0.25
CD60S18J□180U	180	5.41	0.22
CD60S18J□220U	220	6.27	0.2
CD60S18J□270U	270	7.69	0.18
CD60S18J□330U	330	8.89	0.16
CD60S18J□390U	390	11.86	0.15
CD60S18J□470U	470	13.36	0.14
CD60S18J□560U	560	16.09	0.12
CD60S18J□680U	680	18.48	0.11
CD60S18J□820U	820	24.88	0.1
CD60S18J□1M	1000	28.09	0.09
CD60S20J□1U	1	0.016	3.25
CD60S20J□1U5	1.5	0.042	2.94
CD60S20J□2U	2.0	0.046	2.47
CD60S20J□2U2	2.2	0.042	2.1
CD60S20J□3U3	3.3	0.056	1.96
CD60S20J□4U7	4.7	0.068	1.45
CD60S20J□6U8	6.8	0.098	1.37
CD60S20J□8U2	8.2	0.107	1.19
CD60S20J□10U	10	0.137	1.05
CD60S20J□12U	12	0.153	0.97
CD60S20J□15U	15	0.18	0.94
CD60S20J□18U	18	0.238	0.67
CD60S20J□22U	22	0.28	0.59
CD60S20J□27U	27	0.378	0.55
CD60S20J□33U	33	0.5	0.52
CD60S20J□39U	39	0.588	0.5
CD60S20J□47U	47	0.71	0.47
CD60S20J□100U	100	1.45	0.36
CD60S20J□120U	120	1.64	0.3
CD60S20J□820U	820	1.24	0.15
CD60S20J□3M9	3900	43.64	0.55
CD60S20J□4M7	4700	49.75	0.038
CD60S20J□5M6	5600	62.35	0.035
CD60S20J□6M8	6800	59.45	0.033
CD60S20J□10M	10000	169.2	0.022
CD60S25J□1U	1	0.015	3.48
CD60S25J□1U5	1.5	0.02	2.83
CD60S25J□2U	2	0.024	2.44
CD60S25J□2U2	2.2	0.033	2.2
CD60S25J□3U3	3.3	0.034	1.89
CD60S25J□4U3	4.3	0.044	1.65
CD60S25J□4U7	4.7	0.059	1.5
CD60S25J□6U2	6.2	0.06	1.37
CD60S25J□10U	10	0.09	1.07
CD60S25J□12U	12	0.105	0.97
CD60S25J□15U	15	0.122	0.87
CD60S25J□18U	18	0.154	0.79

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Part Number	Inductance L (μ H)	RDC (Ω) max.	IDC (A) max.
CD60S25J□22U	22	0.182	0.71
CD60S25J□27U	27	0.238	0.64
CD60S25J□33U	33	0.273	0.58
CD60S25J□39U	39	0.343	0.53
CD60S25J□47U	47	0.406	0.48
CD60S25J□56U	56	0.483	0.44
CD60S25J□68U	68	0.56	0.40
CD60S25J□82U	82	0.651	0.36
CD60S25J□100U	100	0.91	0.33
CD60S25J□120U	120	0.994	0.3
CD60S25J□150U	150	1.25	0.28
CD60S25J□180U	180	1.65	0.26
CD60S25J□220U	220	2.13	0.24
CD60S25J□270U	270	2.39	0.22
CD60S25J□330U	330	3.18	0.2
CD60S25J□390U	390	3.51	0.19
CD60S25J□470U	470	3.95	0.19
CD60S25J□560U	560	5.26	0.18
CD60S25J□680U	680	5.87	0.18
CD60S25J□1M	1000	11.85	0.14
CD60S25J□1M5	1500	12.65	0.12
CD60S30J□1U	1.0	0.013	3.59
CD60S30J□1U5	1.5	0.018	2.93
CD60S30J□2U	2	0.022	2.42
CD60S30J□3U3	3.3	0.027	1.89
CD60S30J□3U6	3.6	0.035	1.72
CD60S30J□4U2	4.2	0.036	1.7
CD60S30J□4U3	4.3	0.038	1.66
CD60S30J□4U7	4.7	0.044	1.6
CD60S30J□6U2	6.2	0.045	1.45
CD60S30J□10U	10	0.069	1.14
CD60S30J□12U	12	0.073	1.04
CD60S30J□15U	15	0.087	0.93
CD60S30J□18U	18	0.104	0.85
CD60S30J□22U	22	0.133	0.77
CD60S30J□27U	27	0.168	0.70
CD60S30J□33U	33	0.196	0.63
CD60S30J□39U	39	0.21	0.58
CD60S30J□47U	47	0.259	0.53
CD60S30J□56U	56	0.308	0.48
CD60S30J□68U	68	0.378	0.44
CD60S30J□82U	82	0.462	0.40
CD60S30J□100U	100	0.581	0.36
CD60S30J□120U	120	0.527	0.32
CD60S30J□150U	150	0.7	0.31
CD60S30J□180U	180	0.781	0.29
CD60S30J□220U	220	1.043	0.27
CD60S30J□270U	270	1.321	0.25
CD60S30J□330U	330	1.789	0.23
CD60S30J□390U	390	1.995	0.21
CD60S30J□470U	470	2.286	0.21
CD60S30J□560U	560	2.94	0.19
CD60S30J□680U	680	3.295	0.19

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Part Number	Inducance L (μ H)	RDC (Ω) max.	IDC (A) max.
CD60S351□1U	1	0.009	4.5
CD60S351□1U2	1.2	0.01	3.85
CD60S351□2U	2.0	0.011	2.73
CD60S351□2U7	2.7	0.016	2.45
CD60S351□3U3	3.3	0.018	2.2
CD60S351□3U9	3.9	0.021	2
CD60S351□4U7	4.7	0.028	1.95
CD60S351□6U2	6.2	0.034	1.87
CD60S351□6U8	6.8	0.041	1.84
CD60S351□8U2	8.2	0.045	1.7
CD60S351□10U	10	0.049	1.64
CD60S351□12U	12	0.058	1.47
CD60S351□15U	15	0.082	1.27
CD60S351□18U	18	0.085	1.19
CD60S351□22U	22	0.095	1.02
CD60S351□27U	27	0.112	0.98
CD60S351□33U	33	0.133	0.8
CD60S351□39U	39	0.16	0.77
CD60S351□47U	47	0.186	0.7
CD60S351□56U	56	0.248	0.63
CD60S351□68U	68	0.290	0.52
CD60S351□82U	82	0.36	0.47
CD60S351□100U	100	0.42	0.42
CD60S351□120U	120	0.49	0.39
CD60S351□150U	150	0.59	0.35
CD60S351□180U	180	0.7	0.32
CD60S351□220U	220	0.9	0.29
CD60S351□270U	270	1.11	0.27
CD60S351□330U	330	1.38	0.24
CD60S351□390U	390	1.64	0.23
CD60S351□470U	470	2.09	0.22