

SPECIFICATION OF BS□□□□CDSU SERIES

FEATURES

1. To be high saturation for surface mounting type inductors.
2. Low cost feature.

APPLICATIONS

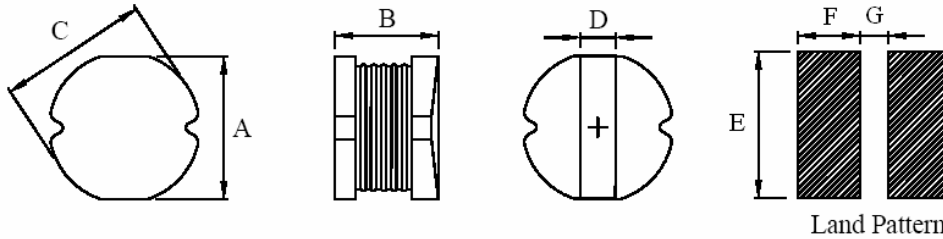
VTR , QA equipment , LCD television set , nootbook PC , portable communication equipments , DC to DC converters , etc.



ORDERING CODE

BS0502CDSU 100 M T
 (1) (2) (3) (4)

- (1) PRODUCT TYPE CODE AND SIZE CODE
- (2) INDUCTANCE
- (3) INDUCTANCE TOLERANCE (K : ±10%, M : ±20%)
- (4) REEL TAPING



SHAPE & DIMENSIONS

UNIT:mm

SIZE CODE	A ±0.3	B	C ±0.3	D Typ.	E	F	G
BS0302CDSU	3.0	2.3(max)	3.5	1.2	3.5	1.60	0.8
BS0403CDSU	4.0	3.2±0.3	4.5	1.5	4.5	2.10	0.8
BS0502CDSU	5.2	2.5±0.3	5.8	2.0	5.5	2.25	1.5
BS0503CDSU	5.2	3.0±0.3	5.8	2.0	5.5	2.25	1.5
BS0504CDSU	5.2	4.5±0.3	5.8	2.0	5.5	2.25	1.5
BS0703CDSU	7.0	3.5±0.3	7.8	2.5	7.5	3.05	1.9
BS0705CDSU	7.0	5.0±0.3	7.8	2.5	7.5	3.05	1.9
BS1004CDSU	9.0	4.0±0.3	10.0	2.9	9.5	3.65	2.5
BS1005CDSU	9.0	5.4±0.3	10.0	2.9	9.5	3.65	2.5

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SMD POWER INDUCTORS → BS□□□□CDSU SERIES

ELECTRICAL CHARACTERISTIC

Stamp	L (μH)	RDC (ohm) max										IDC (A) max									
		BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS
		0302 CDSU	0403 CDSU	0502 CDSU	0503 CDSU	0504 CDSU	0703 CDSU	0705 CDSU	1004 CDSU	1005 CDSU		0302 CDSU	0403 CDSU	0502 CDSU	0503 CDSU	0504 CDSU	0703 CDSU	0705 CDSU	1004 CDSU	1005 CDSU	
1R0M	1.0	0.045	0.033	-	0.030	0.015	-	-	-	-	2.200	3.800	-	4.500	5.900	-	-	-	-	-	
1R2M	1.2	0.050	-	0.050	0.030	0.020	-	-	-	-	2.100	-	4.200	4.200	5.200	-	-	-	-	-	
1R4M	1.4	-	0.038	-	-	-	-	-	-	-	-	3.300	-	-	-	-	-	-	-	-	
1R5M	1.5	0.055	-	0.060	0.030	0.025	-	-	-	-	1.700	-	4.000	4.100	4.700	-	-	-	-	-	
1R8M	1.8	0.070	0.042	0.065	0.030	0.030	-	-	-	-	1.650	2.910	3.700	3.700	4.000	-	-	-	-	-	
2R2M	2.2	0.085	0.047	0.070	0.030	0.035	-	-	-	-	1.600	2.600	3.500	3.500	3.800	-	-	-	-	-	
2R7M	2.7	0.100	0.052	0.080	0.040	0.040	-	-	-	-	1.400	2.430	3.200	3.200	3.400	-	-	-	-	-	
3R3M	3.3	0.120	0.058	0.100	0.050	0.045	-	-	-	-	1.050	2.150	2.700	2.800	3.300	-	-	-	-	-	
3R9M	3.9	0.125	0.076	0.120	0.060	0.050	-	-	-	-	1.000	1.980	2.400	2.600	2.900	-	-	-	-	-	
4R7M	4.7	0.135	0.094	0.140	0.070	0.060	-	-	-	-	1.000	1.700	2.000	2.500	2.800	-	-	-	-	-	
5R6M	5.6	0.145	0.101	0.150	0.080	0.070	-	-	-	-	0.950	1.600	1.800	2.400	2.400	-	-	-	-	-	
6R8M	6.8	0.200	0.117	0.160	0.090	0.080	-	-	-	-	0.950	1.410	1.500	2.200	2.100	-	-	-	-	-	
8R2M	8.2	0.250	0.132	0.170	0.100	0.090	-	-	-	-	0.920	1.260	1.400	2.000	2.000	-	-	-	-	-	
100K	10	0.320	0.182	0.200	0.120	0.100	0.080	0.070	0.053	0.060	0.900	1.150	1.300	1.800	1.440	1.440	2.300	2.380	2.600		
120K	12	0.350	0.210	0.230	0.130	0.120	0.090	0.080	0.061	0.070	0.850	1.050	1.100	1.750	1.400	1.390	2.000	2.130	2.450		
150K	15	0.460	0.235	0.250	0.150	0.140	0.100	0.090	0.070	0.080	0.750	0.920	1.050	1.700	1.300	1.240	1.800	1.870	2.270		
180K	18	0.520	0.338	0.300	0.180	0.150	0.110	0.100	0.081	0.090	0.700	0.840	1.000	1.600	1.230	1.120	1.600	1.730	2.150		
220K	22	0.650	0.378	0.350	0.220	0.180	0.130	0.110	0.088	0.100	0.600	0.760	0.900	1.500	1.110	1.070	1.500	1.600	1.950		
270K	27	0.750	0.522	0.400	0.240	0.200	0.150	0.120	0.100	0.110	0.550	0.710	0.850	1.400	0.970	0.940	1.300	1.440	1.760		
330K	33	0.920	0.540	0.500	0.300	0.230	0.170	0.130	0.120	0.120	0.500	0.640	0.750	1.100	0.880	0.850	1.200	1.260	1.500		
390K	39	1.000	0.587	0.550	0.400	0.320	0.220	0.160	0.151	0.140	0.480	0.590	0.700	1.000	0.800	0.740	1.100	1.200	1.370		
470K	47	1.150	0.844	0.650	0.430	0.370	0.250	0.180	0.170	0.170	0.450	0.540	0.600	0.900	0.720	0.680	1.100	1.100	1.280		
560K	56	1.500	0.937	0.750	0.500	0.420	0.280	0.240	0.199	0.190	0.300	0.500	0.550	0.850	0.680	0.640	0.940	1.010	1.170		
680K	68	2.000	1.117	0.950	0.600	0.460	0.330	0.280	0.223	0.220	0.260	0.460	0.500	0.800	0.610	0.590	0.850	0.910	1.110		
820K	82	2.150	1.345	1.200	0.800	0.600	0.410	0.370	0.252	0.250	0.230	0.450	0.450	0.650	0.580	0.540	0.780	0.850	1.000		
101K	100	2.500	1.520	1.400	0.900	0.700	0.480	0.430	0.344	0.350	0.200	0.440	0.400	0.600	0.520	0.510	0.720	0.740	0.970		
121K	120	3.400	1.800	1.750	1.000	0.930	0.540	0.470	0.396	0.400	0.180	0.430	0.350	0.580	0.480	0.490	0.660	0.690	0.890		
151K	150	4.200	2.000	2.000	1.300	1.100	0.750	0.640	0.544	0.470	0.160	0.420	0.250	0.430	0.400	0.400	0.580	0.610	0.780		
181K	180	4.500	3.200	2.600	1.500	1.380	1.020	0.710	0.621	0.630	0.150	0.380	0.220	0.410	0.380	0.360	0.510	0.560	0.720		
221K	220	5.100	3.400	3.000	2.000	1.570	1.200	0.960	0.721	0.730	0.140	0.360	0.200	0.380	0.350	0.310	0.490	0.530	0.660		
271K	270	8.500	3.900	3.700	2.500	1.650	1.310	1.110	0.949	0.970	0.100	0.340	0.180	0.350	0.320	0.290	0.420	0.450	0.570		
331K	330	9.500	5.300	4.300	3.200	1.700	1.500	1.260	1.100	1.150	0.090	0.280	0.170	0.280	0.280	0.280	0.400	0.420	0.520		
391K	390	-	5.900	6.000	3.500	1.800	1.800	1.770	1.245	1.300	-	0.240	0.160	0.260	0.260	0.260	0.360	0.380	0.480		
471K	470	-	6.800	6.700	4.200	2.300	1.950	1.960	1.526	1.480	-	0.210	0.150	0.200	0.230	0.230	0.340	0.350	0.420		
561K	560	-	8.500	-	4.500	2.500	2.300	2.000	1.904	1.900	-	0.200	-	0.190	0.200	0.210	0.330	0.320	0.330		
681K	680	-	10.000	-	6.000	3.000	2.700	2.200	2.200	2.250	-	0.180	-	0.180	0.190	0.130	0.320	0.310	0.280		
821K	820	-	13.400	-	6.500	4.500	3.200	2.900	2.700	2.550	-	0.150	-	0.150	0.160	0.110	0.250	0.300	0.240		
102K	1000	-	15.600	-	8.000	4.800	3.800	3.900	3.500	3.000	-	0.140	-	0.130	0.140	0.080	0.200	0.290	0.200		

Test Freq. :

- BS0302CDSU 1.0 ~ 330μH (100KHz / 0.1V)
- BS0403CDSU 1.0 ~ 8.2μH (7.96MHz) , 10 ~ 68μH (2.52MHz) , 82 ~ 1000μH (1KHz / 0.25V)
- BS0502CDSU 1.2 ~ 470μH (100KHz / 0.1V)
- BS0503CDSU 1.0 ~ 8.2μH (7.96MHz) , 10 ~ 82μH (2.52MHz) , 100 ~ 1000μH (1KHz / 0.25V)
- BS0504CDSU 1.0 ~ 8.2μH (7.96MHz) , 10 ~ 82μH (2.52MHz) , 100 ~ 1000μH (1KHz / 0.25V)
- BS0703CDSU 10 ~ 82μH (2.52MHz) , 100 ~ 1000μH (1KHz / 0.25V)
- BS0705CDSU 10 ~ 82μH (2.52MHz) , 100 ~ 1000μH (1KHz / 0.25V)
- BS1004CDSU 10 ~ 82μH (2.52MHz) , 100 ~ 1000μH (1KHz / 0.25V)
- BS1005CDSU 10 ~ 82μH (2.52MHz) , 100 ~ 1000μH (1KHz / 0.25V)

Tolerance :

- 1.0 ~ 8.2μH ± 20%(M)
- 10 ~ 1000μH ± 10%(K)

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KING CORE ELECTRONICS INC.

Tel:886-3-4698855

Fax:886-3-4691395

No.269,Nanfong Rd.,Pingjhen City,Taoyuan County, Taiwan

E-mail:kc@mail.kingcore.com.tw

Web Site:http://www.kingcore.com.tw

SMD POWER INDUCTORS → BS0502CDSU SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	Test Frequency (Hz)	DC Resistance (Ω)max	IDC (A)max
BS0502CDSU1R2MT	1.2	100	0.050	4.20
BS0502CDSU1R5MT	1.5	100	0.060	4.00
BS0502CDSU1R8MT	1.8	100	0.065	3.70
BS0502CDSU2R2MT	2.2	100	0.070	3.50
BS0502CDSU2R7MT	2.7	100	0.080	3.20
BS0502CDSU3R3MT	3.3	100	0.100	2.70
BS0502CDSU3R9MT	3.9	100	0.120	2.40
BS0502CDSU4R7MT	4.7	100	0.140	2.00
BS0502CDSU5R6MT	5.6	100	0.150	1.80
BS0502CDSU6R8MT	6.8	100	0.160	1.50
BS0502CDSU8R2MT	8.2	100	0.170	1.40
BS0502CDSU100KT	10.0	100	0.200	1.30
BS0502CDSU120KT	12.0	100	0.230	1.10
BS0502CDSU150KT	15.0	100	0.250	1.05
BS0502CDSU180KT	18.0	100	0.300	1.00
BS0502CDSU220KT	22.0	100	0.350	0.90
BS0502CDSU270KT	27.0	100	0.400	0.85
BS0502CDSU330KT	33.0	100	0.500	0.75
BS0502CDSU390KT	39.0	100	0.550	0.70
BS0502CDSU470KT	47.0	100	0.650	0.60
BS0502CDSU560KT	56.0	100	0.750	0.55
BS0502CDSU680KT	68.0	100	0.950	0.50
BS0502CDSU820KT	82.0	100	1.200	0.45
BS0502CDSU101KT	100.0	100	1.400	0.40
BS0502CDSU121KT	120.0	100	1.750	0.35
BS0502CDSU151KT	150.0	100	2.000	0.25
BS0502CDSU181KT	180.0	100	2.600	0.22
BS0502CDSU221KT	220.0	100	3.000	0.20
BS0502CDSU271KT	270.0	100	3.700	0.18
BS0502CDSU331KT	330.0	100	4.300	0.17
BS0502CDSU391KT	390.0	100	6.000	0.16
BS0502CDSU471KT	470.0	100	6.700	0.15

Test Freq.:100KHz/0.1V

Tolerance: K \pm 10%,M \pm 20%

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