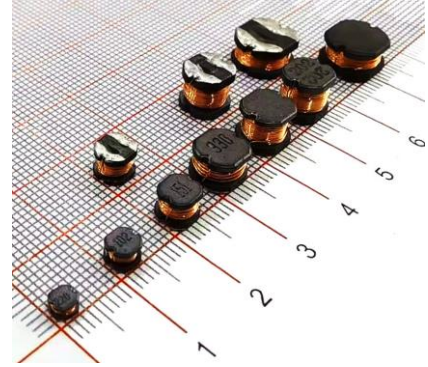
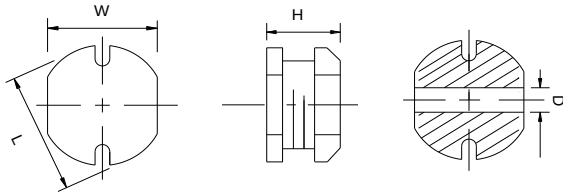


Product Outline

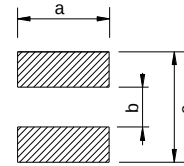
- Inductance is up to 8.0mH
- A wide range of product line up is available to meet the various requirements.
- For DC/DC converter applications and power chokes.
- Ideally used in PDA, HDD,DSC/DVC,portable DVD, car navigation, LED lighting,smart screen, power module,etc.
- Custom design is also available.



Dimensions(mm)



Recommended Patterns



Type	L	W	H	D	a	b	c	Packaging (pcs/reel)
CD3521S	3.5±0.3	3.0±0.3	2.4 max.	1.0	3.5	0.8	4.0	3000
CD4532S	4.5±0.3	4.0±0.3	3.5 max.	1.6	4.5	1.5	5.0	2000
CD5830S	5.8±0.3	5.2±0.3	3.3 max.	2.0	5.5	1.7	6.0	2000
CD5845S	5.8±0.3	5.2±0.3	4.8 max.	2.0	5.5	1.7	6.0	1500
CD5845H	5.8±0.3	5.2±0.3	4.8 max.	2.0	5.5	1.7	6.0	1500
CD7850S	7.8±0.3	7.0±0.3	5.3 max.	2.5	7.5	2.0	8.0	1000
CD7850H	7.8±0.3	7.0±0.3	5.3 max.	2.5	7.5	2.0	8.0	1000
CD7862H	7.8±0.3	7.0±0.3	6.5 max.	2.6	7.5	2.0	8.0	900
CD7870H	7.8±0.3	7.0±0.3	7.3 max.	2.6	7.5	2.0	8.0	800
CD1054S/H	10.0±0.3	9.0±0.3	5.7 max.	3.0	9.5	2.5	10.0	750

Dimensions without tolerance are typical.

Product Identification

CD **7850** **S** - **470** **K** **C** **S**

① ② ③ ④ ⑤ ⑥ ⑦

- ① Product Series No.
- ② Dimension symbol. 7850=7.8 x 5.0mm (L x H)
- ③ Internal control code.
- ④ Inductance value. 470=47×10⁰ uH=47 uH 2R2=2.2uH,101=100uH,182=1800uH
- ⑤ Tolerance. M=±20%, K=±10%,N=±30%
- ⑥ Packing Style, C=Carrier Tape, B=Bulk
- ⑦ Characteristic parameter level.

CD3521S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	Test Conditions	DCR max. (mΩ) ②	Rated current (A) ③
CD3521S-1R0MCS	1.0	±20%	100kHz/0.5V	50	1.85
CD3521S-1R5MCS	1.5	±20%	100kHz/0.5V	60	1.80
CD3521S-2R2MCS	2.2	±20%	100kHz/0.5V	80	1.60
CD3521S-3R3MCS	3.3	±20%	100kHz/0.5V	100	1.40
CD3521S-3R9MCS	3.9	±20%	100kHz/0.5V	150	1.30
CD3521S-4R7MCS	4.7	±20%	100kHz/0.5V	165	1.25
CD3521S-5R6MCS	5.6	±20%	100kHz/0.5V	185	1.20
CD3521S-6R8MCS	6.8	±20%	100kHz/0.5V	210	1.10
CD3521S-8R2MCS	8.2	±20%	100kHz/0.5V	240	1.05
CD3521S-100KCS	10	±10%	100kHz/0.5V	350	0.76
CD3521S-150KCS	15	±10%	100kHz/0.5V	500	0.64
CD3521S-220KCS	22	±10%	100kHz/0.5V	650	0.50
CD3521S-330KCS	33	±10%	100kHz/0.5V	850	0.38
CD3521S-390KCS	39	±10%	100kHz/0.5V	1000	0.36
CD3521S-470KCS	47	±10%	100kHz/0.5V	1600	0.33
CD3521S-560KCS	56	±10%	100kHz/0.5V	1650	0.29
CD3521S-680KCS	68	±10%	100kHz/0.5V	1850	0.28
CD3521S-820KCS	82	±10%	100kHz/0.5V	2100	0.25
CD3521S-101KCS	100	±10%	1kHz/0.5V	2200	0.22
CD3521S-181KCS	180	±10%	1kHz/0.5V	5000	0.20

CD4532S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	Test Conditions	DCR max. (mΩ) ②	Rated current (A) ③
CD4532S-1R0MCS	1.0	±20%	100kHz/0.5V	45	3.50
CD4532S-2R2MCS	2.2	±20%	100kHz/0.5V	70	2.40
CD4532S-2R7MCS	2.7	±20%	100kHz/0.5V	75	2.30
CD4532S-3R3MCS	3.3	±20%	100kHz/0.5V	85	2.25
CD4532S-3R9MCS	3.9	±20%	100kHz/0.5V	90	1.70
CD4532S-4R7MCS	4.7	±20%	100kHz/0.5V	105	1.65
CD4532S-5R6MCS	5.6	±20%	100kHz/0.5V	120	1.60
CD4532S-6R8MCS	6.8	±20%	100kHz/0.5V	130	1.40
CD4532S-8R2MCS	8.2	±20%	100kHz/0.5V	145	1.30
CD4532S-100KCS	10	±10%	100kHz/0.5V	180	1.10
CD4532S-120KCS	12	±10%	100kHz/0.5V	210	1.00
CD4532S-150KCS	15	±10%	100kHz/0.5V	235	0.85
CD4532S-180KCS	18	±10%	100kHz/0.5V	330	0.80
CD4532S-220KCS	22	±10%	100kHz/0.5V	360	0.70
CD4532S-270KCS	27	±10%	100kHz/0.5V	520	0.65
CD4532S-330KCS	33	±10%	100kHz/0.5V	540	0.60
CD4532S-390KCS	39	±10%	100kHz/0.5V	580	0.55
CD4532S-470KCS	47	±10%	100kHz/0.5V	840	0.48
CD4532S-560KCS	56	±10%	100kHz/0.5V	930	0.46
CD4532S-680KCS	68	±10%	100kHz/0.5V	1110	0.44
CD4532S-820KCS	82	±20%	100kHz/0.5V	1250	0.42
CD4532S-101KCS	100	±10%	1kHz/0.5V	1400	0.40
CD4532S-121KCS	120	±10%	1kHz/0.5V	1500	0.38

All specifications are subject to change without notice.

CD4532S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	Test Conditions	DCR max. (mΩ) ②	Rated current (A) ③
CD4532S-151KCS	150	±10%	1kHz/0.5V	2000	0.35
CD4532S-181KCS	180	±10%	1kHz/0.5V	2120	0.30
CD4532S-221KCS	220	±10%	1kHz/0.5V	2460	0.27
CD4532S-271KCS	270	±10%	1kHz/0.5V	2980	0.23
CD4532S-331KCS	330	±10%	1kHz/0.5V	4500	0.20
CD4532S-471KCS	470	±10%	1kHz/0.5V	5500	0.16
CD4532S-561KCS	560	±10%	1kHz/0.5V	6000	0.14
CD4532S-681KCS	680	±10%	1kHz/0.5V	6800	0.13

CD5845S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	Test Conditions	DCR max. (mΩ) ②	Rated current (A) ③
CD5845S-1R0MCS	1.0	±20%	100kHz/0.5V	25	3.50
CD5845S-1R5MCS	1.5	±20%	100kHz/0.5V	25	3.30
CD5845S-2R2MCS	2.2	±20%	100kHz/0.5V	28	3.20
CD5845S-2R7MCS	2.7	±20%	100kHz/0.5V	30	3.00
CD5845S-3R3MCS	3.3	±20%	100kHz/0.5V	35	2.50
CD5845S-3R9MCS	3.9	±20%	100kHz/0.5V	38	2.40
CD5845S-4R7MCS	4.7	±20%	100kHz/0.5V	40	2.30
CD5845S-5R0MCS	5.0	±20%	100kHz/0.5V	49	2.20
CD5845S-5R6MCS	5.6	±20%	100kHz/0.5V	50	2.10
CD5845S-6R8MCS	6.8	±20%	100kHz/0.5V	55	2.00
CD5845S-7R2MCS	7.2	±20%	100kHz/0.5V	70	1.80
CD5845S-8R2MCS	8.2	±20%	100kHz/0.5V	90	1.70
CD5845S-100KCS	10	±10%	100kHz/0.5V	100	1.65
CD5845S-120KCS	12	±10%	100kHz/0.5V	120	1.55
CD5845S-150KCS	15	±10%	100kHz/0.5V	140	1.40
CD5845S-180KCS	18	±10%	100kHz/0.5V	150	1.25
CD5845S-200KCS	20	±10%	100kHz/0.5V	160	1.15
CD5845S-220KCS	22	±10%	100kHz/0.5V	180	1.10
CD5845S-270KCS	27	±10%	100kHz/0.5V	200	0.95
CD5845S-330KCS	33	±10%	100kHz/0.5V	220	0.90
CD5845S-390KCS	39	±10%	100kHz/0.5V	300	0.80
CD5845S-470KCS	47	±10%	100kHz/0.5V	350	0.75
CD5845S-560KCS	56	±10%	100kHz/0.5V	400	0.70
CD5845S-680KCS	68	±10%	100kHz/0.5V	450	0.65
CD5845S-820KCS	82	±10%	100kHz/0.5V	600	0.60
CD5845S-101KCS	100	±10%	1kHz/0.5V	700	0.55
CD5845S-121KCS	120	±10%	1kHz/0.5V	850	0.45
CD5845S-151KCS	150	±10%	1kHz/0.5V	1100	0.43
CD5845S-181KCS	180	±10%	1kHz/0.5V	1350	0.40
CD5845S-221KCS	220	±10%	1kHz/0.5V	1550	0.35
CD5845S-301KCS	300	±10%	1kHz/0.5V	1690	0.32
CD5845S-331KCS	330	±10%	1kHz/0.5V	1760	0.30
CD5845S-391KCS	390	±10%	1kHz/0.5V	1890	0.27
CD5845S-471KCS	470	±10%	1kHz/0.5V	2500	0.25

All specifications are subject to change without notice.

CD5845S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	Test Conditions	DCR max. (mΩ) ②	Rated current (A) ③
CD5845S-511KCS	510	±10%	1kHz/0.5V	2700	0.22
CD5845S-561KCS	560	±10%	1kHz/0.5V	2870	0.20
CD5845S-681KCS	680	±10%	1kHz/0.5V	3500	0.18
CD5845S-821KCS	820	±10%	1kHz/0.5V	5200	0.17

CD5845H Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	Test Conditions	DCR max. (mΩ) ②	Rated current (A) ③
CD5845H-501KCS	500	±10%	1kHz/0.5V	4.0	0.45
CD5845H-102KCS	1000	±10%	1kHz/0.5V	6.0	0.25
CD5845H-152KCS	1500	±10%	1kHz/0.5V	9.0	0.22
CD5845H-182KCS	1800	±10%	1kHz/0.5V	11.7	0.19
CD5845H-202KCS	2000	±10%	1kHz/0.5V	13.0	0.18
CD5845H-222KCS	2200	±10%	1kHz/0.5V	13.8	0.17
CD5845H-252KCS	2500	±10%	1kHz/0.5V	14.0	0.16
CD5845H-302KCS	3000	±10%	1kHz/0.5V	20.0	0.15
CD5845H-402KCS	4000	±10%	1kHz/0.5V	23.0	0.12
CD5845H-502KCS	5000	±10%	1kHz/0.5V	35.0	0.12

CD7850S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	Test Conditions	DCR max. (mΩ) ②	Rated current (A) ③
CD7850S-1R0MCS	1.0	±20%	100kHz/0.5V	15	5.80
CD7850S-1R5MCS	1.5	±20%	100kHz/0.5V	17	5.50
CD7850S-2R2MCS	2.2	±20%	100kHz/0.5V	18	5.20
CD7850S-2R7MCS	2.7	±20%	100kHz/0.5V	23	5.00
CD7850S-3R3MCS	3.3	±20%	100kHz/0.5V	25	4.80
CD7850S-3R9MCS	3.9	±20%	100kHz/0.5V	27	4.20
CD7850S-4R7MCS	4.7	±20%	100kHz/0.5V	28	4.00
CD7850S-5R6MCS	5.6	±20%	100kHz/0.5V	30	3.80
CD7850S-6R0MCS	6.0	±20%	100kHz/0.5V	32	3.20
CD7850S-6R8MCS	6.8	±20%	100kHz/0.5V	36	3.00
CD7850S-8R2MCS	8.2	±20%	100kHz/0.5V	42	2.70
CD7850S-100KCS	10	±10%	100kHz/0.5V	70	2.55
CD7850S-120KCS	12	±10%	100kHz/0.5V	80	2.40
CD7850S-150KCS	15	±10%	100kHz/0.5V	90	2.00
CD7850S-180KCS	18	±10%	100kHz/0.5V	100	1.95
CD7850S-220KCS	22	±10%	100kHz/0.5V	110	1.70
CD7850S-270KCS	27	±10%	100kHz/0.5V	120	1.55
CD7850S-330KCS	33	±10%	100kHz/0.5V	130	1.40
CD7850S-390KCS	39	±10%	100kHz/0.5V	150	1.35
CD7850S-470KCS	47	±10%	100kHz/0.5V	190	1.25
CD7850S-560KCS	56	±10%	100kHz/0.5V	230	1.10
CD7850S-680KCS	68	±10%	100kHz/0.5V	250	1.00
CD7850S-820KCS	82	±10%	100kHz/0.5V	300	0.95

All specifications are subject to change without notice.

CD7850S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	Test Conditions	DCR max. (mΩ) ②	Rated current (A) ③
CD7850S-850KCS	85	±10%	100kHz/0.5V	320	0.90
CD7850S-101KCS	100	±10%	1kHz/0.5V	400	0.78
CD7850S-121KCS	120	±10%	1kHz/0.5V	450	0.73
CD7850S-151KCS	150	±10%	1kHz/0.5V	600	0.70
CD7850S-181KCS	180	±10%	1kHz/0.5V	700	0.60
CD7850S-201KCS	200	±10%	1kHz/0.5V	900	0.58
CD7850S-221KCS	220	±10%	1kHz/0.5V	950	0.55
CD7850S-271KCS	270	±10%	1kHz/0.5V	1100	0.50
CD7850S-331KCS	330	±10%	1kHz/0.5V	1250	0.45
CD7850S-391KCS	390	±10%	1kHz/0.5V	1750	0.40
CD7850S-471KCS	470	±10%	1kHz/0.5V	1950	0.35
CD7850S-561KCS	560	±10%	1kHz/0.5V	1980	0.32
CD7850S-681KCS	680	±10%	1kHz/0.5V	2180	0.31
CD7850S-821KCS	820	±10%	1kHz/0.5V	2300	0.30

CD7850H Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	Test Conditions	DCR max. (mΩ) ②	Rated current (A) ③
CD7850H-501KCS	500	±10%	1kHz/0.5V	2.1	0.63
CD7850H-102KCS	1000	±10%	1kHz/0.5V	5.3	0.39
CD7850H-152KCS	1500	±10%	1kHz/0.5V	7.5	0.36
CD7850H-182KCS	1800	±10%	1kHz/0.5V	7.8	0.32
CD7850H-202KCS	2000	±10%	1kHz/0.5V	9.0	0.30
CD7850H-222KCS	2200	±10%	1kHz/0.5V	9.8	0.28
CD7850H-252KCS	2500	±10%	1kHz/0.5V	11.5	0.27
CD7850H-302KCS	3000	±10%	1kHz/0.5V	12.2	0.27
CD7850H-332KCS	3300	±10%	1kHz/0.5V	14.5	0.24
CD7850H-472KCS	4700	±10%	1kHz/0.5V	18.5	0.19
CD7850H-502KCS	5000	±10%	1kHz/0.5V	22.0	0.18
CD7850H-602KCS	6000	±10%	1kHz/0.5V	25.0	0.17
CD7850H-682KCS	6800	±10%	1kHz/0.5V	28.0	0.16
CD7850H-802KCS	8000	±10%	1kHz/0.5V	36.0	0.15

CD7862H Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	Test Conditions	DCR max. (mΩ) ②	Rated current (A) ③
CD7862H-701KCS	700	±10%	1kHz/0.5V	3.0	0.68
CD7862H-102KCS	1000	±10%	1kHz/0.5V	3.5	0.56
CD7862H-152KCS	1500	±10%	1kHz/0.5V	6.0	0.45
CD7862H-182KCS	1800	±10%	1kHz/0.5V	6.2	0.42
CD7862H-202KCS	2000	±10%	1kHz/0.5V	6.7	0.40
CD7862H-302KCS	3000	±10%	1kHz/0.5V	11.5	0.30

All specifications are subject to change without notice.

CD7870H Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	Test Conditions	DCR max. (mΩ) ②	Rated current (A) ③
CD7870H-701KCS	700	±10%	1kHz/0.5V	3.0	0.70
CD7870H-801KCS	800	±10%	1kHz/0.5V	3.1	0.65
CD7870H-821KCS	820	±10%	1kHz/0.5V	3.2	0.64
CD7870H-102KCS	1000	±10%	1kHz/0.5V	3.55	0.58
CD7870H-102KCS	1200	±10%	1kHz/0.5V	4.1	0.55
CD7870H-152KCS	1500	±10%	1kHz/0.5V	6.2	0.47
CD7870H-182KCS	1800	±10%	1kHz/0.5V	6.3	0.45
CD7870H-202KCS	2000	±10%	1kHz/0.5V	7.4	0.43
CD7870H-222KCS	2200	±10%	1kHz/0.5V	7.8	0.40
CD7870H-252KCS	2500	±10%	1kHz/0.5V	8.25	0.38
CD7870H-302KCS	3000	±10%	1kHz/0.5V	12.0	0.37
CD7870H-332KCS	3300	±10%	1kHz/0.5V	12.5	0.34
CD7870H-402KCS	4000	±10%	1kHz/0.5V	15.0	0.30
CD7870H-442KCS	4400	±10%	1kHz/0.5V	15.4	0.29
CD7870H-472KCS	4700	±10%	1kHz/0.5V	16.0	0.28
CD7870H-482KCS	4800	±10%	1kHz/0.5V	16.5	0.28
CD7870H-522KCS	5200	±10%	1kHz/0.5V	20.5	0.30

CD1054S/H Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	Test Conditions	DCR max. (mΩ) ②	Rated current (A) ③
CD1054S-1R0MCS	1.0	±20%	100kHz/0.5V	10	8.00
CD1054S-2R2MCS	2.2	±20%	100kHz/0.5V	15	7.20
CD1054S-3R3MCS	3.3	±20%	100kHz/0.5V	18	7.00
CD1054S-4R7MCS	4.7	±20%	100kHz/0.5V	20	6.00
CD1054S-6R2MCS	6.2	±20%	100kHz/0.5V	22	5.00
CD1054S-8R2MCS	8.2	±20%	100kHz/0.5V	50	4.00
CD1054S-100KCS	10	±10%	100kHz/0.5V	60	3.80
CD1054S-120KCS	12	±10%	100kHz/0.5V	70	3.40
CD1054S-150KCS	15	±10%	100kHz/0.5V	80	2.90
CD1054S-180KCS	18	±10%	100kHz/0.5V	90	2.65
CD1054S-220KCS	22	±10%	100kHz/0.5V	100	2.50
CD1054S-270KCS	27	±10%	100kHz/0.5V	110	2.25
CD1054S-330KCS	33	±10%	100kHz/0.5V	120	2.00
CD1054S-390KCS	39	±10%	100kHz/0.5V	130	1.90
CD1054S-470KCS	47	±10%	100kHz/0.5V	150	1.70
CD1054S-560KCS	56	±10%	100kHz/0.5V	190	1.60
CD1054S-680KCS	68	±10%	100kHz/0.5V	220	1.45
CD51054S-820KCS	82	±10%	100kHz/0.5V	250	1.30
CD1054S-101KCS	100	±10%	1kHz/0.5V	330	1.15
CD1054S-121KCS	120	±10%	1kHz/0.5V	400	1.00
CD1054S-151KCS	150	±10%	1kHz/0.5V	450	0.95
CD1054S-181KCS	180	±10%	1kHz/0.5V	600	0.85
CD1054S-221KCS	220	±10%	1kHz/0.5V	700	0.75
CD1054S-271KCS	270	±10%	1kHz/0.5V	950	0.70

All specifications are subject to change without notice.

CD1054S/H Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance tolerance	Test Conditions	DCR max. (mΩ) ②	Rated current (A) ③
CD1054S-331KCS	330	±10%	1kHz/0.5V	1100	0.60
CD1054S-391KCS	390	±10%	1kHz/0.5V	1200	0.55
CD1045S-471KCS	470	±10%	1kHz/0.5V	1450	0.50
CD1054S-561KCS	560	±10%	1kHz/0.5V	1900	0.48
CD1054S-621KCS	620	±10%	1kHz/0.5V	2000	0.46
CD1054S-681KCS	680	±10%	1kHz/0.5V	2250	0.45
CD1054S-821KCS	820	±10%	1kHz/0.5V	2500	0.40
CD1054H-102KCS	1000	±10%	1kHz/0.5V	3000	0.35④
CD1054H-502KCS	5000	±10%	1kHz/0.5V	11500	0.22④
CD1054H-562KCS	5600	±10%	1kHz/0.5V	14500	0.20④

Notes:

- ① Inductance tested using an Agilent/HP 4192A or equivalent.
- ② DCR measured on a micro-ohmmeter.
- ③ Rated current: The DC current at which the inductance decreases by 10% of its nominal value or at which $\Delta t=40^{\circ}\text{C}$, whichever is lower($T_a=20^{\circ}\text{C}$).