

### FEATURES

- Ferrite core provides high withstand voltage and wide inductance range.
- Non-Shielded magnetic circuit design.
- Metallization on core results in secure and reliable mounting.
- Low cost.
- Operating temperature: -40°C ~ +125°C.



### APPLICATIONS

- Ideally used in VTR, OA equipment, Digital camera, LCD television set , notebook PC, etc as DC-DC Converter.

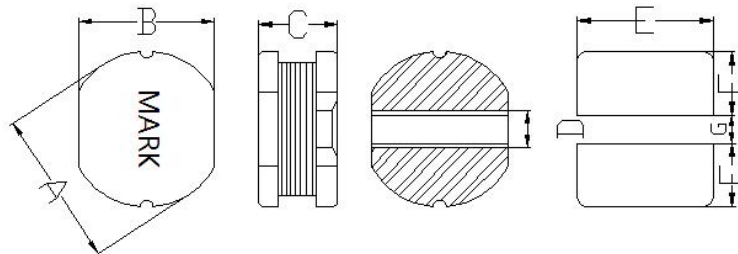
### PRODUCT IDENTIFICATION

ALCD 4532 S 1R0 M T

(1) (2) (3) (4) (5) (6)

- (1) 系列名称 Series name
- (2) 产品尺寸 Product dimensions
- (3) 特性类别 Feature Type (S:Standard 标准型)
- (4) 电感量 Inductance Value (1R0:1.0uH, 100:10uH, 101:100uH)
- (5) 电感公差 Inductance Tolerance(K:10%, M:20%, N:30%)
- (6) 包装 Package(T:Tape&Reel 卷盘编带)

### SHAPE AND DIMENSIONS



Unit:mm

Series	A	B	C	D	E	F	G
ALCD3516	3.5±0.3	3.0±0.3	1.6±0.3	1.0Ref.	3.5Ref.	1.3Ref.	1.0Ref.
ALCD3521	3.5±0.3	3.0±0.3	2.1±0.3	1.0Ref.	3.5Ref.	1.3Ref.	1.0Ref.
ALCD4521	4.5±0.3	4.0±0.3	2.1±0.3	1.4Ref.	4.5Ref.	1.8Ref.	1.5Ref.
ALCD4532	4.5±0.3	4.0±0.3	3.2±0.3	1.4Ref.	4.5Ref.	1.8Ref.	1.5Ref.
ALCD5825	5.8±0.3	5.2±0.3	2.5±0.3	1.6Ref.	5.8Ref.	2.2Ref.	1.6Ref.
ALCD5830	5.8±0.3	5.2±0.3	3.0±0.3	1.6Ref.	5.8Ref.	2.2Ref.	1.6Ref.
ALCD5835	5.8±0.3	5.2±0.3	3.5±0.3	1.6Ref.	5.8Ref.	2.2Ref.	1.6Ref.
ALCD5845	5.8±0.3	5.2±0.3	4.5±0.3	1.6Ref.	5.8Ref.	2.2Ref.	1.6Ref.
ALCD7835	7.8±0.3	7.0±0.3	3.5±0.3	2.4Ref.	7.5Ref.	3.0Ref.	2.4Ref.
ALCD7850	7.8±0.3	7.0±0.3	5.0±0.3	2.4Ref.	7.5Ref.	3.0Ref.	2.4Ref.
ALCD1040	10.0±0.3	9.0±0.3	4.0±0.3	2.9Ref.	9.5Ref.	3.7Ref.	2.5Ref.
ALCD1054	10.0±0.3	9.0±0.3	5.4±0.3	2.9Ref.	9.5Ref.	3.7Ref.	2.5Ref.

## SPECIFICATIONS

### ALCD3516 Series

Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Condition	DCR Max. ( $\Omega$ )	Isat(A)
ALCD3516S1R0MT	1.0	20	100KHz/0.25V	0.049	1.7
ALCD3516S1R8MT	1.8	20	100KHz/0.25V	0.068	1.5
ALCD3516S2R2MT	2.2	20	100KHz/0.25V	0.089	1.4
ALCD3516S2R7MT	2.7	20	100KHz/0.25V	0.091	1.3
ALCD3516S3R3MT	3.3	20	100KHz/0.25V	0.120	1.1
ALCD3516S4R7MT	4.7	20	100KHz/0.25V	0.163	0.95
ALCD3516S5R6MT	5.6	20	100KHz/0.25V	0.182	0.9
ALCD3516S6R8MT	6.8	20	100KHz/0.25V	0.234	0.85
ALCD3516S8R2MT	8.2	20	100KHz/0.25V	0.260	0.8
ALCD3516S100KT	10	10	100KHz/0.25V	0.357	0.68
ALCD3516S120KT	12	10	100KHz/0.25V	0.377	0.65
ALCD3516S150KT	15	10	100KHz/0.25V	0.442	0.58
ALCD3516S180KT	18	10	100KHz/0.25V	0.710	0.54
ALCD3516S220KT	22	10	100KHz/0.25V	0.850	0.5
ALCD3516S270KT	27	10	100KHz/0.25V	0.890	0.45
ALCD3516S330KT	33	10	100KHz/0.25V	1.010	0.4
ALCD3516S390KT	39	10	100KHz/0.25V	1.110	0.35
ALCD3516S470KT	47	10	100KHz/0.25V	1.680	0.3
ALCD3516S820KT	82	10	100KHz/0.25V	2.600	0.25
ALCD3516S101KT	100	10	100KHz/0.25V	3.050	0.23
ALCD3516S151KT	150	10	100KHz/0.25V	4.290	0.2
ALCD3516S221KT	220	10	100KHz/0.25V	7.540	0.16

### ALCD3521 Series

Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Condition	DCR Max. ( $\Omega$ )	Isat(A)
ALCD3521SR24NT	0.24	30	100KHz/0.25V	0.020	6.00
ALCD3521S1R0MT	1.0	20	100KHz/0.25V	0.035	3.50
ALCD3521S1R5MT	1.5	20	100KHz/0.25V	0.052	2.60
ALCD3521S2R2MT	2.2	20	100KHz/0.25V	0.073	2.30
ALCD3521S2R7MT	2.7	20	100KHz/0.25V	0.101	2.10
ALCD3521S3R3MT	3.3	20	100KHz/0.25V	0.109	1.90
ALCD3521S3R9MT	3.9	20	100KHz/0.25V	0.148	1.60
ALCD3521S4R7MT	4.7	20	100KHz/0.25V	0.170	1.50
ALCD3521S5R6MT	5.6	20	100KHz/0.25V	0.180	1.40
ALCD3521S6R8MT	6.8	20	100KHz/0.25V	0.219	1.20
ALCD3521S8R2MT	8.2	20	100KHz/0.25V	0.235	1.10
ALCD3521S100KT	10	10	100KHz/0.25V	0.350	1.00
ALCD3521S120KT	12	10	100KHz/0.25V	0.390	0.95

Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Condition	DCR Max. ( $\Omega$ )	Isat(A)
ALCD3521S150KT	15	10	100KHz/0.25V	0.468	0.90
ALCD3521S180KT	18	10	100KHz/0.25V	0.546	0.80
ALCD3521S220KT	22	10	100KHz/0.25V	0.650	0.70
ALCD3521S270KT	27	10	100KHz/0.25V	0.720	0.65
ALCD3521S330KT	33	10	100KHz/0.25V	0.910	0.60
ALCD3521S390KT	39	10	100KHz/0.25V	1.050	0.55
ALCD3521S470KT	47	10	100KHz/0.25V	1.380	0.50
ALCD3521S560KT	56	10	100KHz/0.25V	1.530	0.45
ALCD3521S680KT	68	10	100KHz/0.25V	1.800	0.40
ALCD3521S820KT	82	10	100KHz/0.25V	2.390	0.35
ALCD3521S101KT	100	10	100KHz/0.25V	3.120	0.31
ALCD3521S121KT	120	10	100KHz/0.25V	3.300	0.29
ALCD3521S151KT	150	10	100KHz/0.25V	3.960	0.27
ALCD3521S181KT	180	10	100KHz/0.25V	4.200	0.25
ALCD3521S221KT	220	10	100KHz/0.25V	6.000	0.22
ALCD3521S271KT	270	10	100KHz/0.25V	6.600	0.20
ALCD3521S331KT	330	10	100KHz/0.25V	9.600	0.18
ALCD3521S391KT	390	10	100KHz/0.25V	10.920	0.16
ALCD3521S471KT	470	10	100KHz/0.25V	13.080	0.15
ALCD3521S561KT	560	10	100KHz/0.25V	14.400	0.13
ALCD3521S681KT	680	10	100KHz/0.25V	16.800	0.11
ALCD3521S821KT	820	10	100KHz/0.25V	24.000	0.10
ALCD3521S271KT	270	10	100KHz/0.25V	6.600	0.20
ALCD3521S331KT	330	10	100KHz/0.25V	9.600	0.18
ALCD3521S391KT	390	10	100KHz/0.25V	10.920	0.16
ALCD3521S471KT	470	10	100KHz/0.25V	13.080	0.15
ALCD3521S561KT	560	10	100KHz/0.25V	14.400	0.13
ALCD3521S681KT	680	10	100KHz/0.25V	16.800	0.11
ALCD3521S821KT	820	10	100KHz/0.25V	24.000	0.10

**ALCD4521 Series**

Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Condition	DCR Max. ( $\Omega$ )	Isat(A)
ALCD4521S1R0MT	1.0	20	100KHz/0.25V	0.030	2.50
ALCD4521S1R5MT	1.5	20	100KHz/0.25V	0.040	1.80
ALCD4521S2R2MT	2.2	20	100KHz/0.25V	0.050	1.60
ALCD4521S3R3MT	3.3	20	100KHz/0.25V	0.060	1.50
ALCD4521S4R7MT	4.7	20	100KHz/0.25V	0.100	1.30
ALCD4521S5R6MT	5.6	20	100KHz/0.25V	0.080	1.10
ALCD4521S6R8MT	6.8	20	100KHz/0.25V	0.100	1.05
ALCD4521S8R2MT	8.2	20	100KHz/0.25V	0.110	1.00

Part Number	Inductance (μH)	Tolerance (%)	Test Condition	DCR Max. (Ω)	Isat(A)
ALCD4521S100KT	10	10	100KHz/0.25V	0.170	0.92
ALCD4521S120KT	12	10	100KHz/0.25V	0.180	0.82
ALCD4521S150KT	15	10	100KHz/0.25V	0.200	0.80
ALCD4521S180KT	18	10	100KHz/0.25V	0.250	0.73
ALCD4521S220KT	22	10	100KHz/0.25V	0.427	0.70
ALCD4521S330KT	33	10	100KHz/0.25V	0.525	0.60
ALCD4521S390KT	39	10	100KHz/0.25V	0.654	0.56
ALCD4521S470KT	47	10	100KHz/0.25V	0.668	0.54
ALCD4521S560KT	56	10	100KHz/0.25V	0.730	0.52
ALCD4521S680KT	68	10	100KHz/0.25V	1.360	0.50
ALCD4521S820KT	82	10	100KHz/0.25V	1.450	0.48
ALCD4521S101KT	100	10	100KHz/0.25V	1.500	0.45
ALCD4521S121KT	120	10	100KHz/0.25V	1.530	0.35
ALCD4521S151KT	150	10	100KHz/0.25V	2.400	0.34
ALCD4521S181KT	180	10	100KHz/0.25V	2.860	0.32
ALCD4521S221KT	220	10	100KHz/0.25V	4.100	0.25
ALCD4521S271KT	270	10	100KHz/0.25V	5.140	0.24
ALCD4521S331KT	330	10	100KHz/0.25V	7.150	0.21
ALCD4521S391KT	390	10	100KHz/0.25V	7.430	0.20
ALCD4521S471KT	470	10	100KHz/0.25V	8.190	0.18
ALCD4521S681KT	680	10	100KHz/0.25V	10.920	0.13
ALCD4521S102KT	1000	10	100KHz/0.25V	24.230	0.12
ALCD4521S152KT	1500	10	100KHz/0.25V	25.560	0.09

### ALCD4532 Series

Part Number	Inductance (μH)	Tolerance (%)	Test Condition	DCR Max. (Ω)	Isat(A)
ALCD4532SR10NT	0.1	30	100KHz/0.25V	0.010	9.50
ALCD4532SR24MT	0.24	20	100KHz/0.25V	0.013	8.50
ALCD4532SR47MT	0.47	20	100KHz/0.25V	0.016	7.00
ALCD4532S1R0MT	1.0	20	100KHz/0.25V	0.026	5.10
ALCD4532S1R4MT	1.4	20	100KHz/0.25V	0.032	4.20
ALCD4532S1R5MT	1.5	20	100KHz/0.25V	0.032	4.20
ALCD4532S2R0MT	2.0	20	100KHz/0.25V	0.039	3.50
ALCD4532S2R2MT	2.2	20	100KHz/0.25V	0.045	3.30
ALCD4532S2R7MT	2.7	20	100KHz/0.25V	0.052	3.20
ALCD4532S3R3MT	3.3	20	100KHz/0.25V	0.058	3.00
ALCD4532S3R9MT	3.9	20	100KHz/0.25V	0.065	2.80
ALCD4532S4R7MT	4.7	20	100KHz/0.25V	0.078	2.50
ALCD4532S5R6MT	5.6	20	100KHz/0.25V	0.065	1.70
ALCD4532S6R8MT	6.8	20	100KHz/0.25V	0.091	1.50

Part Number	Inductance (μH)	Tolerance (%)	Test Condition	DCR Max. (Ω)	Isat(A)
ALCD4532S8R2MT	8.2	20	100KHz/0.25V	0.120	1.30
ALCD4532S100KT	10	10	100KHz/0.25V	0.140	1.20
ALCD4532S120KT	12	10	100KHz/0.25V	0.150	1.10
ALCD4532S130KT	13	10	100KHz/0.25V	0.170	1.05
ALCD4532S150KT	15	10	100KHz/0.25V	0.185	1.00
ALCD4532S180KT	18	10	100KHz/0.25V	0.230	0.90
ALCD4532S220KT	22	10	100KHz/0.25V	0.270	0.75
ALCD4532S270KT	27	10	100KHz/0.25V	0.331	0.70
ALCD4532S330KT	33	10	100KHz/0.25V	0.403	0.65
ALCD4532S390KT	39	10	100KHz/0.25V	0.430	0.60
ALCD4532S470KT	47	10	100KHz/0.25V	0.530	0.53
ALCD4532S560KT	56	10	100KHz/0.25V	0.611	0.50
ALCD4532S680KT	68	10	100KHz/0.25V	0.840	0.45
ALCD4532S820KT	82	10	100KHz/0.25V	0.880	0.43
ALCD4532S101KT	100	10	100KHz/0.25V	1.200	0.40
ALCD4532S121KT	120	10	100KHz/0.25V	1.300	0.37
ALCD4532S151KT	150	10	100KHz/0.25V	1.600	0.31
ALCD4532S181KT	180	10	100KHz/0.25V	2.000	0.28
ALCD4532S221KT	220	10	100KHz/0.25V	2.580	0.25
ALCD4532S271KT	270	10	100KHz/0.25V	3.050	0.23
ALCD4532S331KT	330	10	100KHz/0.25V	3.550	0.21
ALCD4532S391KT	390	10	100KHz/0.25V	3.960	0.19
ALCD4532S471KT	470	10	100KHz/0.25V	5.400	0.17
ALCD4532S561KT	560	10	100KHz/0.25V	5.900	0.16
ALCD4532S681KT	680	10	100KHz/0.25V	8.040	0.15
ALCD4532S102KT	1000	10	100KHz/0.25V	10.700	0.12
ALCD4532S152KT	1500	10	100KHz/0.25V	16.800	0.10
ALCD4532S202KT	2000	10	100KHz/0.25V	20.400	0.08
ALCD4532S222KT	2200	10	100KHz/0.25V	28.000	0.07
ALCD4532S252KT	2500	10	100KHz/0.25V	30.000	0.06
ALCD4532S302KT	3000	10	100KHz/0.25V	34.000	0.05
ALCD4532S332KT	3300	10	100KHz/0.25V	35.000	0.04

### ALCD5825 Series

Part Number	Inductance (μH)	Tolerance (%)	Test Condition	DCR Max. (Ω)	Isat(A)
ALCD5825S1R0MT	1.0	20	100KHz/0.25V	0.024	5.50
ALCD5825S1R5MT	1.5	20	100KHz/0.25V	0.037	4.70
ALCD5825S1R8MT	1.8	20	100KHz/0.25V	0.039	4.50
ALCD5825S2R2MT	2.2	20	100KHz/0.25V	0.042	4.20
ALCD5825S2R7MT	2.7	20	100KHz/0.25V	0.046	3.90

Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Condition	DCR Max. ( $\Omega$ )	Isat(A)
ALCD5825S3R3MT	3.3	20	100KHz/0.25V	0.063	3.30
ALCD5825S3R9MT	3.9	20	100KHz/0.25V	0.083	3.00
ALCD5825S4R7MT	4.7	20	100KHz/0.25V	0.075	2.80
ALCD5825S5R6MT	5.6	20	100KHz/0.25V	0.088	2.50
ALCD5825S6R8MT	6.8	20	100KHz/0.25V	0.095	2.20
ALCD5825S8R2MT	8.2	20	100KHz/0.25V	0.118	2.00
ALCD5825S100KT	10	10	100KHz/0.25V	0.151	1.90
ALCD5825S120KT	12	10	100KHz/0.25V	0.156	1.70
ALCD5825S150KT	15	10	100KHz/0.25V	0.234	1.50
ALCD5825S180KT	18	10	100KHz/0.25V	0.240	1.30
ALCD5825S220KT	22	10	100KHz/0.25V	0.298	1.20
ALCD5825S270KT	27	10	100KHz/0.25V	0.325	1.10
ALCD5825S330KT	33	10	100KHz/0.25V	0.408	0.95
ALCD5825S390KT	39	10	100KHz/0.25V	0.434	0.92
ALCD5825S470KT	47	10	100KHz/0.25V	0.569	0.88
ALCD5825S560KT	56	10	100KHz/0.25V	0.638	0.80
ALCD5825S680KT	68	10	100KHz/0.25V	0.800	0.75
ALCD5825S820KT	82	10	100KHz/0.25V	0.880	0.70
ALCD5825S850KT	85	10	100KHz/0.25V	1.050	0.68
ALCD5825S910KT	91	10	100KHz/0.25V	1.130	0.65
ALCD5825S101KT	100	10	100KHz/0.25V	1.130	0.63
ALCD5825S121KT	120	10	100KHz/0.25V	1.330	0.55
ALCD5825S151KT	150	10	100KHz/0.25V	1.920	0.45
ALCD5825S181KT	180	10	100KHz/0.25V	2.050	0.41
ALCD5825S221KT	220	10	100KHz/0.25V	2.500	0.38
ALCD5825S271KT	270	10	100KHz/0.25V	3.020	0.35
ALCD5825S331KT	330	10	100KHz/0.25V	3.870	0.31
ALCD5825S391KT	390	10	100KHz/0.25V	4.470	0.28
ALCD5825S471KT	470	10	100KHz/0.25V	5.660	0.26
ALCD5825S561KT	560	10	100KHz/0.25V	6.330	0.24
ALCD5825S681KT	680	10	100KHz/0.25V	7.530	0.22
ALCD5825S821KT	820	10	100KHz/0.25V	9.540	0.20
ALCD5825S102KT	1000	10	100KHz/0.25V	14.900	0.18
ALCD5825S132KT	1300	10	100KHz/0.25V	18.200	0.15
ALCD5825S202KT	2000	10	100KHz/0.25V	28.600	0.13
ALCD5825S222KT	2200	10	100KHz/0.25V	34.000	0.12
ALCD5825S252KT	2500	10	100KHz/0.25V	36.400	0.11

**ALCD5830 Series**

Part Number	Inductance ( $\mu\text{H}$ )	Tolerance (%)	Test Condition	DCR Max. ( $\Omega$ )	Isat(A)
ALCD5830S1R0MT	1.0	20	100KHz/0.25V	0.017	6.20
ALCD5830S1R5MT	1.5	20	100KHz/0.25V	0.020	5.60
ALCD5830S1R8MT	1.8	20	100KHz/0.25V	0.022	4.90
ALCD5830S2R2MT	2.2	20	100KHz/0.25V	0.026	4.60
ALCD5830S2R5MT	2.5	20	100KHz/0.25V	0.034	4.30
ALCD5830S3R3MT	3.3	20	100KHz/0.25V	0.040	4.10
ALCD5830S3R9MT	3.9	20	100KHz/0.25V	0.046	3.70
ALCD5830S4R7MT	4.7	20	100KHz/0.25V	0.052	3.30
ALCD5830S5R6MT	5.6	20	100KHz/0.25V	0.058	3.10
ALCD5830S6R8MT	6.8	20	100KHz/0.25V	0.071	2.80
ALCD5830S8R2MT	8.2	20	100KHz/0.25V	0.081	2.50
ALCD5830S2R2MT	2.2	20	100KHz/0.25V	0.030	4.60
ALCD5830S4R7MT	4.7	20	100KHz/0.25V	0.055	3.30
ALCD5830S6R8MT	6.8	20	100KHz/0.25V	0.073	2.80
ALCD5830S100KT	10	10	100KHz/0.25V	0.108	2.20
ALCD5830S120KT	12	10	100KHz/0.25V	0.126	2.10
ALCD5830S150KT	15	10	100KHz/0.25V	0.145	2.00
ALCD5830S180KT	18	10	100KHz/0.25V	0.160	1.70
ALCD5830S220KT	22	10	100KHz/0.25V	0.225	1.50
ALCD5830S270KT	27	10	100KHz/0.25V	0.242	1.40
ALCD5830S330KT	33	10	100KHz/0.25V	0.325	1.20
ALCD5830S390KT	39	10	100KHz/0.25V	0.369	1.10
ALCD5830S470KT	47	10	100KHz/0.25V	0.436	1.00
ALCD5830S560KT	56	10	100KHz/0.25V	0.553	0.85
ALCD5830S680KT	68	10	100KHz/0.25V	0.628	0.80
ALCD5830S820KT	82	10	100KHz/0.25V	0.785	0.75
ALCD5830S101KT	100	10	100KHz/0.25V	0.848	0.70
ALCD5830S121KT	120	10	100KHz/0.25V	1.030	0.60
ALCD5830S151KT	150	10	100KHz/0.25V	1.440	0.55
ALCD5830S201KT	200	10	100KHz/0.25V	1.950	0.50
ALCD5830S221KT	220	10	100KHz/0.25V	2.080	0.45
ALCD5830S271KT	270	10	100KHz/0.25V	2.460	0.40
ALCD5830S331KT	330	10	100KHz/0.25V	3.710	0.35
ALCD5830S391KT	390	10	100KHz/0.25V	4.240	0.30
ALCD5830S471KT	470	10	100KHz/0.25V	4.420	0.28
ALCD5830S561KT	560	10	100KHz/0.25V	4.680	0.25
ALCD5830S681KT	680	10	100KHz/0.25V	6.420	0.22
ALCD5830S821KT	820	10	100KHz/0.25V	7.360	0.20
ALCD5830S102KT	1000	10	100KHz/0.25V	9.730	0.17
ALCD5830S472KT	4700	10	100KHz/0.25V	50.700	0.11



**ALCD5835 Series**

Part Number	Inductance ( $\mu\text{H}$ )	Tolerance (%)	Test Condition	DCR Max. ( $\Omega$ )	Isat(A)
ALCD5835S1R0MT	1.0	20	100KHz/0.25V	0.017	3.70
ALCD5835S1R5MT	1.5	20	100KHz/0.25V	0.020	3.50
ALCD5835S1R8MT	1.8	20	100KHz/0.25V	0.022	3.00
ALCD5835S2R2MT	2.2	20	100KHz/0.25V	0.026	2.85
ALCD5835S2R5MT	2.5	20	100KHz/0.25V	0.034	2.70
ALCD5835S3R3MT	3.3	20	100KHz/0.25V	0.040	2.40
ALCD5835S3R9MT	3.9	20	100KHz/0.25V	0.046	2.25
ALCD5835S4R7MT	4.7	20	100KHz/0.25V	0.052	1.90
ALCD5835S5R6MT	5.6	20	100KHz/0.25V	0.058	1.88
ALCD5835S6R8MT	6.8	20	100KHz/0.25V	0.071	1.87
ALCD5835S8R2MT	8.2	20	100KHz/0.25V	0.081	1.82
ALCD5835S1R5MT	1.5	20	100KHz/0.25V	0.024	3.50
ALCD5835S2R2MT	2.2	20	100KHz/0.25V	0.030	2.85
ALCD5835S3R3MT	3.3	20	100KHz/0.25V	0.042	2.40
ALCD5835S6R8MT	6.8	20	100KHz/0.25V	0.073	1.87
ALCD5835S100KT	10	10	100KHz/0.25V	0.094	1.78
ALCD5835S120KT	12	10	100KHz/0.25V	0.126	1.60
ALCD5835S150KT	15	10	100KHz/0.25V	0.139	1.58
ALCD5835S180KT	18	10	100KHz/0.25V	0.160	1.30
ALCD5835S220KT	22	10	100KHz/0.25V	0.192	1.29
ALCD5835S270KT	27	10	100KHz/0.25V	0.242	1.10
ALCD5835S330KT	33	10	100KHz/0.25V	0.325	0.95
ALCD5835S390KT	39	10	100KHz/0.25V	0.369	0.92
ALCD5835S470KT	47	10	100KHz/0.25V	0.436	0.82
ALCD5835S560KT	56	10	100KHz/0.25V	0.553	0.80
ALCD5835S680KT	68	10	100KHz/0.25V	0.628	0.76
ALCD5835S820KT	82	10	100KHz/0.25V	0.785	0.67
ALCD5835S101KT	100	10	100KHz/0.25V	0.848	0.62
ALCD5835S121KT	120	10	100KHz/0.25V	1.030	0.60
ALCD5835S151KT	150	10	100KHz/0.25V	1.440	0.48
ALCD5835S181KT	180	10	100KHz/0.25V	1.640	0.43
ALCD5835S221KT	220	10	100KHz/0.25V	2.080	0.37
ALCD5835S271KT	270	10	100KHz/0.25V	2.460	0.33
ALCD5835S331KT	330	10	100KHz/0.25V	3.710	0.30
ALCD5835S391KT	390	10	100KHz/0.25V	4.240	0.26
ALCD5835S471KT	470	10	100KHz/0.25V	4.420	0.24
ALCD5835S561KT	560	10	100KHz/0.25V	4.680	0.22
ALCD5835S681KT	680	10	100KHz/0.25V	6.420	0.21
ALCD5835S821KT	820	10	100KHz/0.25V	7.360	0.18
ALCD5835S102KT	1000	10	100KHz/0.25V	9.730	0.17



Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Condition	DCR Max. ( $\Omega$ )	Isat(A)
ALCD5835S152KT	1500	10	100KHz/0.25V	15.000	0.15
ALCD5835S222KT	2200	10	100KHz/0.25V	24.700	0.12
ALCD5835S392KT	3900	10	100KHz/0.25V	42.000	0.11
ALCD5835S562KT	5600	10	100KHz/0.25V	59.000	0.09
ALCD5835S123KT	12000	10	100KHz/0.25V	124.000	0.06

**ALCD5845 Series**

Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Condition	DCR Max. ( $\Omega$ )	Isat(A)
ALCD5845SR30NT	0.3	30	100KHz/0.25V	0.010	6.00
ALCD5845SR47NT	0.47	30	100KHz/0.25V	0.011	5.60
ALCD5845S1R0NT	1.0	30	100KHz/0.25V	0.018	5.40
ALCD5845S1R5MT	1.5	20	100KHz/0.25V	0.024	4.70
ALCD5845S2R2MT	2.2	20	100KHz/0.25V	0.031	3.80
ALCD5845S2R7MT	2.7	20	100KHz/0.25V	0.033	3.40
ALCD5845S3R3MT	3.3	20	100KHz/0.25V	0.035	3.10
ALCD5845S3R6MT	3.6	20	100KHz/0.25V	0.040	3.10
ALCD5845S3R9MT	3.9	20	100KHz/0.25V	0.045	2.90
ALCD5845S4R7MT	4.7	20	100KHz/0.25V	0.052	2.80
ALCD5845S5R6MT	5.6	20	100KHz/0.25V	0.060	2.40
ALCD5845S6R8MT	6.8	20	100KHz/0.25V	0.068	2.20
ALCD5845S8R2MT	8.2	20	100KHz/0.25V	0.076	2.00
ALCD5845S100KT	10	10	100KHz/0.25V	0.065	1.80
ALCD5845S120KT	12	10	100KHz/0.25V	0.085	1.60
ALCD5845S150KT	15	10	100KHz/0.25V	0.096	1.45
ALCD5845S180KT	18	10	100KHz/0.25V	0.107	1.40
ALCD5845S220KT	22	10	100KHz/0.25V	0.143	1.30
ALCD5845S270KT	27	10	100KHz/0.25V	0.169	1.10
ALCD5845S330KT	33	10	100KHz/0.25V	0.208	1.00
ALCD5845S390KT	39	10	100KHz/0.25V	0.215	0.95
ALCD5845S470KT	47	10	100KHz/0.25V	0.315	0.90
ALCD5845S500KT	50	10	100KHz/0.25V	0.360	0.87
ALCD5845S560KT	56	10	100KHz/0.25V	0.377	0.85
ALCD5845S680KT	68	10	100KHz/0.25V	0.415	0.75
ALCD5845S820KT	82	10	100KHz/0.25V	0.468	0.68
ALCD5845S101KT	100	10	100KHz/0.25V	0.611	0.63
ALCD5845S121KT	120	10	100KHz/0.25V	0.754	0.53
ALCD5845S151KT	150	10	100KHz/0.25V	0.845	0.50
ALCD5845S181KT	180	10	100KHz/0.25V	0.975	0.48
ALCD5845S221KT	220	10	100KHz/0.25V	1.250	0.42
ALCD5845S271KT	270	10	100KHz/0.25V	1.440	0.40

Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Condition	DCR Max. ( $\Omega$ )	Isat(A)
ALCD5845S331KT	330	10	100KHz/0.25V	1.680	0.35
ALCD5845S391KT	390	10	100KHz/0.25V	2.600	0.30
ALCD5845S471KT	470	10	100KHz/0.25V	2.520	0.28
ALCD5845S561KT	560	10	100KHz/0.25V	3.020	0.24
ALCD5845S681KT	680	10	100KHz/0.25V	3.500	0.23
ALCD5845S801KT	800	10	100KHz/0.25V	4.700	0.22
ALCD5845S821KT	820	10	100KHz/0.25V	4.800	0.21
ALCD5845S102KT	1000	10	100KHz/0.25V	6.000	0.20
ALCD5845S122KT	1200	10	100KHz/0.25V	6.400	0.17
ALCD5845S152KT	1500	10	100KHz/0.25V	8.800	0.16
ALCD5845S202KT	2000	10	100KHz/0.25V	12.600	0.13
ALCD5845S222KT	2200	10	100KHz/0.25V	13.400	0.12
ALCD5845S252KT	2500	10	100KHz/0.25V	14.000	0.11
ALCD5845S302KT	3000	10	100KHz/0.25V	16.200	0.10
ALCD5845S332KT	3300	10	100KHz/0.25V	17.200	0.10
ALCD5845S352KT	3500	10	100KHz/0.25V	18.900	0.09
ALCD5845S402KT	4000	10	100KHz/0.25V	23.000	0.09
ALCD5845S472KT	4700	10	100KHz/0.25V	25.200	0.08
ALCD5845S562KT	5600	10	100KHz/0.25V	31.200	0.07
ALCD5845S103KT	10000	10	100KHz/0.25V	59.800	0.04

**ALCD7835 Series**

Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Condition	DCR Max. ( $\Omega$ )	Isat(A)
ALCD7835S2R2MT	2.2	20	100KHz/0.25V	0.021	5.20
ALCD7835S3R3MT	3.3	20	100KHz/0.25V	0.026	4.50
ALCD7835S4R7MT	4.7	20	100KHz/0.25V	0.033	3.50
ALCD7835S100KT	10	10	100KHz/0.25V	0.064	2.20
ALCD7835S120KT	12	10	100KHz/0.25V	0.073	2.00
ALCD7835S150KT	15	10	100KHz/0.25V	0.092	1.90
ALCD7835S180KT	18	10	100KHz/0.25V	0.110	1.75
ALCD7835S220KT	22	10	100KHz/0.25V	0.130	1.65
ALCD7835S270KT	27	10	100KHz/0.25V	0.150	1.55
ALCD7835S330KT	33	10	100KHz/0.25V	0.188	1.45
ALCD7835S390KT	39	10	100KHz/0.25V	0.220	1.30
ALCD7835S470KT	47	10	100KHz/0.25V	0.273	1.15
ALCD7835S560KT	56	10	100KHz/0.25V	0.320	1.00
ALCD7835S680KT	68	10	100KHz/0.25V	0.364	0.90
ALCD7835S820KT	82	10	100KHz/0.25V	0.460	0.85
ALCD7835S101KT	100	10	100KHz/0.25V	0.546	0.80
ALCD7835S121KT	120	10	100KHz/0.25V	0.590	0.70

Part Number	Inductance (μH)	Tolerance (%)	Test Condition	DCR Max. (Ω)	Isat(A)
ALCD7835S151KT	150	10	100KHz/0.25V	0.750	0.65
ALCD7835S181KT	180	10	100KHz/0.25V	1.020	0.62
ALCD7835S221KT	220	10	100KHz/0.25V	1.100	0.58
ALCD7835S271KT	270	10	100KHz/0.25V	1.310	0.52
ALCD7835S331KT	330	10	100KHz/0.25V	1.560	0.48
ALCD7835S391KT	390	10	100KHz/0.25V	1.850	0.45
ALCD7835S471KT	470	10	100KHz/0.25V	2.200	0.40
ALCD7835S561KT	560	10	100KHz/0.25V	2.800	0.32
ALCD7835S681KT	680	10	100KHz/0.25V	3.700	0.30
ALCD7835S821KT	820	10	100KHz/0.25V	4.800	0.28
ALCD7835S102KT	1000	10	100KHz/0.25V	5.460	0.23
ALCD7835S352KT	3500	10	100KHz/0.25V	18.000	0.14

### ALCD7850 Series

Part Number	Inductance (μH)	Tolerance (%)	Test Condition	DCR Max. (Ω)	Isat(A)
ALCD7850S1R0MT	1	20	100KHz/0.25V	0.013	7.50
ALCD7850S1R5MT	1.5	20	100KHz/0.25V	0.016	7.20
ALCD7850S2R2MT	2.2	20	100KHz/0.25V	0.018	7.00
ALCD7850S2R7MT	2.7	20	100KHz/0.25V	0.020	6.70
ALCD7850S3R3MT	3.3	20	100KHz/0.25V	0.022	6.20
ALCD7850S3R9MT	3.9	20	100KHz/0.25V	0.025	5.80
ALCD7850S4R7MT	4.7	20	100KHz/0.25V	0.030	5.40
ALCD7850S5R6MT	5.6	20	100KHz/0.25V	0.037	4.90
ALCD7850S6R8MT	6.8	20	100KHz/0.25V	0.040	4.50
ALCD7850S8R2MT	8.2	20	100KHz/0.25V	0.051	4.00
ALCD7850S100KT	10	10	100KHz/0.25V	0.057	3.50
ALCD7850S120KT	12	10	100KHz/0.25V	0.065	3.30
ALCD7850S150KT	15	10	100KHz/0.25V	0.082	3.20
ALCD7850S180KT	18	10	100KHz/0.25V	0.100	3.00
ALCD7850S220KT	22	10	100KHz/0.25V	0.111	2.70
ALCD7850S270KT	27	10	100KHz/0.25V	0.130	2.50
ALCD7850S330KT	33	10	100KHz/0.25V	0.156	2.30
ALCD7850S390KT	39	10	100KHz/0.25V	0.189	2.00
ALCD7850S470KT	47	10	100KHz/0.25V	0.176	1.30
ALCD7850S560KT	56	10	100KHz/0.25V	0.208	1.25
ALCD7850S680KT	68	10	100KHz/0.25V	0.238	1.05
ALCD7850S820KT	82	10	100KHz/0.25V	0.299	0.95
ALCD7850S101KT	100	10	100KHz/0.25V	0.370	0.80
ALCD7850S121KT	120	10	100KHz/0.25V	0.442	0.75
ALCD7850S151KT	150	10	100KHz/0.25V	0.520	0.72

Part Number	Inductance ( $\mu\text{H}$ )	Tolerance (%)	Test Condition	DCR Max. ( $\Omega$ )	Isat(A)
ALCD7850S181KT	180	10	100KHz/0.25V	0.598	0.65
ALCD7850S221KT	220	10	100KHz/0.25V	0.793	0.60
ALCD7850S271KT	270	10	100KHz/0.25V	0.988	0.55
ALCD7850S281KT	280	10	100KHz/0.25V	1.020	0.50
ALCD7850S331KT	330	10	100KHz/0.25V	1.130	0.45
ALCD7850S391KT	390	10	100KHz/0.25V	1.300	0.42
ALCD7850S401KT	400	10	100KHz/0.25V	1.430	0.40
ALCD7850S471KT	470	10	100KHz/0.25V	1.680	0.39
ALCD7850S561KT	560	10	100KHz/0.25V	1.900	0.37
ALCD7850S601KT	600	10	100KHz/0.25V	2.180	0.35
ALCD7850S681KT	680	10	100KHz/0.25V	2.470	0.34
ALCD7850S761KT	760	10	100KHz/0.25V	2.600	0.33
ALCD7850S801KT	800	10	100KHz/0.25V	2.700	0.32
ALCD7850S821KT	820	10	100KHz/0.25V	2.760	0.31
ALCD7850S102KT	1000	10	100KHz/0.25V	3.600	0.30
ALCD7850S122KT	1200	10	100KHz/0.25V	4.380	0.25
ALCD7850S152KT	1500	10	100KHz/0.25V	5.520	0.23
ALCD7850S202KT	2000	10	100KHz/0.25V	6.800	0.21
ALCD7850S222KT	2200	10	100KHz/0.25V	7.500	0.19
ALCD7850S232KT	2300	10	100KHz/0.25V	8.300	0.18
ALCD7850S302KT	3000	10	100KHz/0.25V	9.600	0.17
ALCD7850S332KT	3300	10	100KHz/0.25V	11.500	0.16
ALCD7850S402KT	4000	10	100KHz/0.25V	13.500	0.15
ALCD7850S472KT	4700	10	100KHz/0.25V	16.200	0.14
ALCD7850S502KT	5000	10	100KHz/0.25V	18.000	0.12
ALCD7850S822KT	8200	10	100KHz/0.25V	33.000	0.11
ALCD7850S333KT	33000	10	100KHz/0.25V	108.000	0.04

**ALCD1040 Series**

Part Number	Inductance ( $\mu\text{H}$ )	Tolerance (%)	Test Condition	DCR Max. ( $\Omega$ )	Isat(A)
ALCD1040S1R0MT	1.0	20	100KHz/0.25V	0.008	8.00
ALCD1040S1R2MT	1.2	20	100KHz/0.25V	0.010	7.50
ALCD1040S1R5MT	1.5	20	100KHz/0.25V	0.012	7.20
ALCD1040S2R2MT	2.2	20	100KHz/0.25V	0.013	6.80
ALCD1040S3R3MT	3.3	20	100KHz/0.25V	0.019	5.60
ALCD1040S4R7MT	4.7	20	100KHz/0.25V	0.028	4.80
ALCD1040S5R6MT	5.6	20	100KHz/0.25V	0.031	3.90
ALCD1040S6R8MT	6.8	20	100KHz/0.25V	0.033	3.50
ALCD1040S8R2MT	8.2	20	100KHz/0.25V	0.039	3.30
ALCD1040S100MT	10	20	100KHz/0.25V	0.047	3.00

Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Condition	DCR Max. ( $\Omega$ )	Isat(A)
ALCD1040S150MT	15	20	100KHz/0.25V	0.067	2.80
ALCD1040S180MT	18	20	100KHz/0.25V	0.081	2.50
ALCD1040S220MT	22	20	100KHz/0.25V	0.093	2.20
ALCD1040S330MT	33	20	100KHz/0.25V	0.125	1.70
ALCD1040S390MT	39	20	100KHz/0.25V	0.151	1.50
ALCD1040S470MT	47	20	100KHz/0.25V	0.173	1.30
ALCD1040S560MT	56	20	100KHz/0.25V	0.198	1.10
ALCD1040S680MT	68	20	100KHz/0.25V	0.247	1.00
ALCD1040S820MT	82	20	100KHz/0.25V	0.299	0.95
ALCD1040S101KT	100	10	100KHz/0.25V	0.351	0.85
ALCD1040S121KT	120	10	100KHz/0.25V	0.429	0.80
ALCD1040S151KT	150	10	100KHz/0.25V	0.533	0.75
ALCD1040S181KT	180	10	100KHz/0.25V	0.624	0.72
ALCD1040S221KT	220	10	100KHz/0.25V	0.728	0.68
ALCD1040S331KT	330	10	100KHz/0.25V	1.274	0.60
ALCD1040S391KT	390	10	100KHz/0.25V	1.560	0.56
ALCD1040S471KT	470	10	100KHz/0.25V	1.690	0.50
ALCD1040S561KT	560	10	100KHz/0.25V	2.040	0.45
ALCD1040S681KT	680	10	100KHz/0.25V	2.470	0.40
ALCD1040S821KT	820	10	100KHz/0.25V	2.820	0.35

**ALCD1054 Series**

Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Condition	DCR Max. ( $\Omega$ )	Isat(A)
ALCD1054S4R7MT	4.7	20	100KHz/0.25V	0.027	6.50
ALCD1054S6R8MT	6.8	20	100KHz/0.25V	0.029	4.50
ALCD1054S100KT	10	10	100KHz/0.25V	0.039	4.20
ALCD1054S220KT	22	10	100KHz/0.25V	0.070	2.80
ALCD1054S270KT	27	10	100KHz/0.25V	0.084	2.40
ALCD1054S330KT	33	10	100KHz/0.25V	0.092	2.35
ALCD1054S390KT	39	10	100KHz/0.25V	0.125	2.20
ALCD1054S470KT	47	10	100KHz/0.25V	0.144	2.00
ALCD1054S560KT	56	10	100KHz/0.25V	0.159	1.80
ALCD1054S680KT	68	10	100KHz/0.25V	0.200	1.60
ALCD1054S750KT	75	10	100KHz/0.25V	0.220	1.50
ALCD1054S820KT	82	10	100KHz/0.25V	0.230	1.40
ALCD1054S101KT	100	10	100KHz/0.25V	0.260	1.30
ALCD1054S121KT	120	10	100KHz/0.25V	0.350	1.20
ALCD1054S151KT	150	10	100KHz/0.25V	0.400	1.05
ALCD1054S171KT	170	10	100KHz/0.25V	0.450	0.98
ALCD1054S181KT	180	10	100KHz/0.25V	0.490	0.95

Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Condition	DCR Max. ( $\Omega$ )	Isat(A)
ALCD1054S201KT	200	10	100KHz/0.25V	0.545	0.92
ALCD1054S221KT	220	10	100KHz/0.25V	0.575	0.90
ALCD1054S271KT	270	10	100KHz/0.25V	0.695	0.85
ALCD1054S331KT	330	10	100KHz/0.25V	0.845	0.75
ALCD1054S391KT	390	10	100KHz/0.25V	1.040	0.68
ALCD1054S471KT	470	10	100KHz/0.25V	1.180	0.60
ALCD1054S601KT	600	10	100KHz/0.25V	1.550	0.54
ALCD1054S681KT	680	10	100KHz/0.25V	1.680	0.52
ALCD1054S821KT	820	10	100KHz/0.25V	1.950	0.46
ALCD1054S102KT	1000	10	100KHz/0.25V	2.300	0.43
ALCD1054S122KT	1200	10	100KHz/0.25V	3.100	0.40
ALCD1054S152KT	1500	10	100KHz/0.25V	3.400	0.35
ALCD1054S222KT	2200	10	100KHz/0.25V	5.400	0.30
ALCD1054S302KT	3000	10	100KHz/0.25V	7.800	0.28
ALCD1054S332KT	3300	10	100KHz/0.25V	9.100	0.25

**Note:**

Isat: DC current at which the inductance drops approximate 10% from its value without current.