

### FEATURES

- Ferrite core provides high withstand voltage and wide inductance range.
- Non-Shielded magnetic circuit design.
- High energy storage and low resistance.
- 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

ALDB 1305 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

Fig.1

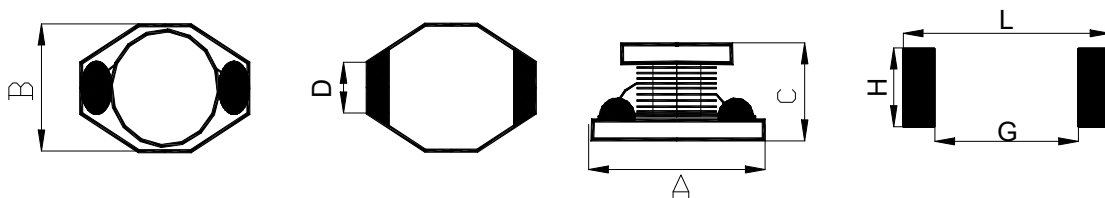


Fig.2

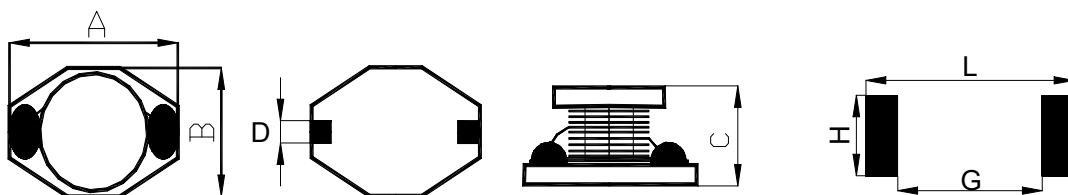
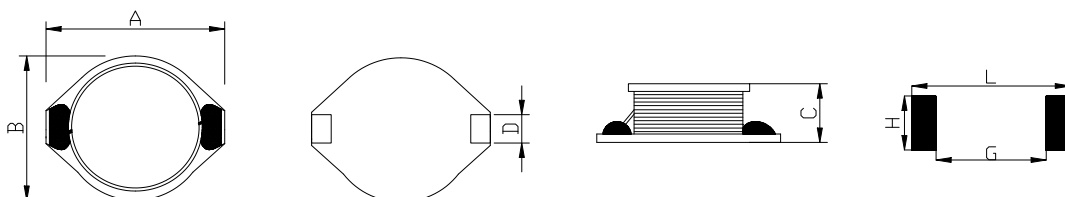


Fig.3



Series	Shape	A Max	B Max	C Max	D Ref	L Ref	H Rel	G Ref
ALDB0603	Fig.1	6.90	4.50	3.00	1.30	7.2	1.6	4.0
ALDB1303	Fig.2	13.50	9.50	3.10	2.54	13.8	3.0	7.3
ALDB1305	Fig.2	13.50	9.50	5.50	2.54	13.8	3.0	7.3
ALDB1311	Fig.2	13.50	9.50	11.43	2.54	13.8	3.0	7.3
ALDB1807	Fig.3	18.54	15.24	7.11	2.54	20.1	3.0	10.3

Unit:mm

## SPECIFICATIONS

### ALDB0603 Series

Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Condition	DCR Max. (m $\Omega$ )	Isat(A)
ALDB0603S1R0MT	1.0	20	100KHz/0.25V	50	2.9
ALDB0603S1R5MT	1.5	20	100KHz/0.25V	60	2.6
ALDB0603S2R2MT	2.2	20	100KHz/0.25V	70	2.4
ALDB0603S3R3MT	3.3	20	100KHz/0.25V	80	2.0
ALDB0603S4R7MT	4.7	20	100KHz/0.25V	90	1.5
ALDB0603S6R8MT	6.8	20	100KHz/0.25V	130	1.4
ALDB0603S8R2MT	8.2	20	100KHz/0.25V	145	1.3
ALDB0603S100MT	10	20	100KHz/0.25V	160	1.2
ALDB0603S150MT	15	20	100KHz/0.25V	230	1.1
ALDB0603S220MT	22	20	100KHz/0.25V	370	0.8
ALDB0603S330MT	33	20	100KHz/0.25V	510	0.6
ALDB0603S470MT	47	20	100KHz/0.25V	640	0.5
ALDB0603S680MT	68	20	100KHz/0.25V	980	0.4

### ALDB1303 Series

Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Condition	DCR Max. (m $\Omega$ )	Isat(A)
ALDB1303S100MT	10	20	100KHz/0.25V	110	2.4
ALDB1303S150MT	15	20	100KHz/0.25V	150	2.0
ALDB1303S220MT	22	20	100KHz/0.25V	230	1.6
ALDB1303S330MT	33	20	100KHz/0.25V	300	1.4
ALDB1303S470MT	47	20	100KHz/0.25V	390	1.0
ALDB1303S680MT	68	20	100KHz/0.25V	660	0.9
ALDB1303S101MT	100	20	100KHz/0.25V	840	0.7
ALDB1303S151MT	150	20	100KHz/0.25V	1200	0.6
ALDB1303S221MT	220	20	100KHz/0.25V	1900	0.5
ALDB1303S331MT	330	20	100KHz/0.25V	2700	0.4
ALDB1303S471MT	470	20	100KHz/0.25V	4000	0.3
ALDB1303S681MT	680	20	100KHz/0.25V	5300	0.2
ALDB1303S102MT	1000	20	100KHz/0.25V	8400	0.1

**ALDB1305 Series**

Part Number	Inductance ( $\mu\text{H}$ )	Tolerance (%)	Test Condition	DCR Max. ( $\text{m}\Omega$ )	Isat(A)
ALDB1305S1R0MT	1.0	20	100KHz/0.25V	9	9.00
ALDB1305S1R5MT	1.5	20	100KHz/0.25V	10	8.00
ALDB1305S2R2MT	2.2	20	100KHz/0.25V	12	7.00
ALDB1305S3R3MT	3.3	20	100KHz/0.25V	15	6.40
ALDB1305S4R7MT	4.7	20	100KHz/0.25V	18	5.40
ALDB1305S6R8MT	6.8	20	100KHz/0.25V	27	4.60
ALDB1305S100MT	10	20	100KHz/0.25V	38	3.80
ALDB1305S150MT	15	20	100KHz/0.25V	46	3.00
ALDB1305S220MT	22	20	100KHz/0.25V	85	2.60
ALDB1305S330MT	33	20	100KHz/0.25V	100	2.00
ALDB1305S470MT	47	20	100KHz/0.25V	140	1.60
ALDB1305S680MT	68	20	100KHz/0.25V	200	1.50
ALDB1305S101MT	100	20	100KHz/0.25V	300	1.30
ALDB1305S151MT	150	20	100KHz/0.25V	400	1.00
ALDB1305S221MT	220	20	100KHz/0.25V	610	0.80
ALDB1305S331MT	330	20	100KHz/0.25V	1050	0.60
ALDB1305S471MT	470	20	100KHz/0.25V	1400	0.50
ALDB1305S681MT	680	20	100KHz/0.25V	2020	0.40
ALDB1305S102MT	1000	20	100KHz/0.25V	3000	0.35
ALDB1305S122MT	1200	20	100KHz/0.25V	3500	0.32
ALDB1305S152MT	1500	20	100KHz/0.25V	5000	0.30
ALDB1305S222MT	2200	20	100KHz/0.25V	8500	0.25
ALDB1305S332MT	3300	20	100KHz/0.25V	9200	0.20
ALDB1305S472MT	4700	20	100KHz/0.25V	14500	0.17
ALDB1305S822MT	8200	20	100KHz/0.25V	27600	0.12

**ALDB1311 Series**

Part Number	Inductance ( $\mu\text{H}$ )	Tolerance (%)	Test Condition	DCR Max. ( $\text{m}\Omega$ )	Isat(A)
ALDB1311S2R2MT	2.2	20	100KHz/0.25V	14	14.00
ALDB1311S3R3MT	3.3	20	100KHz/0.25V	17	10.00
ALDB1311S4R7MT	4.7	20	100KHz/0.25V	20	10.00
ALDB1311S6R8MT	6.8	20	100KHz/0.25V	28	10.00
ALDB1311S100MT	10	20	100KHz/0.25V	40	8.00
ALDB1311S150MT	15	20	100KHz/0.25V	50	7.00
ALDB1311S220MT	22	20	100KHz/0.25V	54	6.50
ALDB1311S330MT	33	20	100KHz/0.25V	80	4.00
ALDB1311S470MT	47	20	100KHz/0.25V	110	3.80
ALDB1311S680MT	68	20	100KHz/0.25V	170	3.00
ALDB1311S101MT	100	20	100KHz/0.25V	220	2.50

Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Condition	DCR Max. (m $\Omega$ )	Isat(A)
ALDB1311S151MT	150	20	100KHz/0.25V	334	2.00
ALDB1311S221MT	220	20	100KHz/0.25V	440	2.00
ALDB1311S331MT	330	20	100KHz/0.25V	700	1.20
ALDB1311S471MT	470	20	100KHz/0.25V	950	1.00
ALDB1311S681MT	680	20	100KHz/0.25V	1700	0.95
ALDB1311S102MT	1000	20	100KHz/0.25V	2000	0.80
ALDB1311S222MT	2200	20	100KHz/0.25V	5500	0.40
ALDB1311S272MT	2700	20	100KHz/0.25V	5500	0.40
ALDB1311S332MT	3300	20	100KHz/0.25V	6800	0.30
ALDB1311S802MT	8000	20	100KHz/0.25V	17000	0.15

**ALDB1807 Series**

Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Condition	DCR Max. (m $\Omega$ )	Isat(A)
ALDB1807S1R0MT	1.0	20	100KHz/0.25V	9	20.0
ALDB1807S2R2MT	2.2	20	100KHz/0.25V	14	16.0
ALDB1807S3R3MT	3.3	20	100KHz/0.25V	15	14.0
ALDB1807S4R7MT	4.7	20	100KHz/0.25V	18	13.0
ALDB1807S6R8MT	6.8	20	100KHz/0.25V	22	11.0
ALDB1807S7R8MT	7.8	20	100KHz/0.25V	24	11.0
ALDB1807S100MT	10	20	100KHz/0.25V	26	9.6
ALDB1807S150MT	15	20	100KHz/0.25V	36	8.0
ALDB1807S220MT	22	20	100KHz/0.25V	47	7.0
ALDB1807S330MT	33	20	100KHz/0.25V	66	5.5
ALDB1807S470MT	47	20	100KHz/0.25V	86	4.5
ALDB1807S680MT	68	20	100KHz/0.25V	130	3.5
ALDB1807S101MT	100	20	100KHz/0.25V	190	3.0
ALDB1807S151MT	150	20	100KHz/0.25V	250	2.6
ALDB1807S221MT	220	20	100KHz/0.25V	380	2.4
ALDB1807S331MT	330	20	100KHz/0.25V	560	1.9
ALDB1807S471MT	470	20	100KHz/0.25V	850	1.4
ALDB1807S681MT	680	20	100KHz/0.25V	1400	1.2
ALDB1807S821MT	820	20	100KHz/0.25V	1700	1.1
ALDB1807S102MT	1000	20	100KHz/0.25V	2050	1.0
ALDB1807S182MT	1800	20	100KHz/0.25V	3400	0.8

**Note:**

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