

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.
- Operating temperature: -40°C ~ +105°C.



APPLICATIONS

- Ideally used in Power supply for VTR, OA equipment, Digital camera, LCD television set , notebook PC, etc.

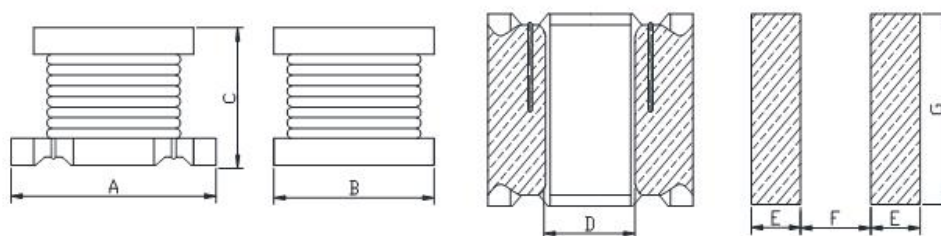
PRODUCT IDENTIFICATION

ALCH 4532 S 100 K T

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

- (1) Series name
- (2) Product dimensions
- (3) Feature Type (S:Standard, H:High Current Type)
- (4) Inductance Value (1R0:1.0uH, 100:10uH, 101:100uH)
- (5) Inductance Tolerance(K:10%, M:20%, N:30%)
- (6) Package(T:Tape&Reel)

SHAPE AND DIMENSIONS



Series	A	B	C	D	E	F	G
ALCH3216	3.2±0.3	1.6±0.3	1.8±0.3	1.2Ref.	1.5Ref.	1.0Ref.	2.8Ref.
ALCH3225	3.2±0.3	2.5±0.3	2.0±0.3	1.2Ref.	1.5Ref.	1.0Ref.	2.8Ref.
ALCH4532	4.5±0.3	3.2±0.3	2.6±0.3	1.5Ref.	2.0Ref.	1.2Ref.	3.5Ref.
ALCH5750	5.7±0.3	5.0±0.3	4.5±0.3	2.0Ref.	2.0Ref.	2.0Ref.	5.0Ref.

Unit:mm

SPECIFICATIONS

ALCH3216 Series

Part Number	Inductance (μ H)	Tolerance (%)	Test Condition	DCR Max. (Ω)	IDC(A)	SRF Min. (MHz)
ALCH3216SR22□T	0.22	N	1MHz/0.25V	0.14	0.85	250
ALCH3216SR47□T	0.47	N	1MHz/0.25V	0.15	0.80	180
ALCH3216SR68□T	0.68	N	1MHz/0.25V	0.26	0.60	150
ALCH3216S1R0□T	1.0	M N	1MHz/0.25V	0.364	0.51	100
ALCH3216S2R2□T	2.2	M N	1MHz/0.25V	0.533	0.43	50
ALCH3216S4R7□T	4.7	M N	1MHz/0.25V	0.845	0.34	31
ALCH3216S6R8□T	6.8	M N	1MHz/0.25V	1.10	0.29	25
ALCH3216S100□T	10	M N	1MHz/0.25V	1.69	0.23	20
ALCH3216S220□T	22	K M	1MHz/0.25V	3.90	0.16	14
ALCH3216S470□T	47	K M	1MHz/0.25V	10.40	0.10	10
ALCH3216S101□T	100	K M	1MHz/0.25V	15.60	0.08	7

ALCH3225 Series

Part Number	Inductance (μ H)	Tolerance (%)	Test Condition	DCR Max. (Ω)	IDC(A)	SRF Min. (MHz)
ALCH3225S1R0□T	1.0	M	1MHz/0.25V	0.117	0.80	96
ALCH3225S2R2□T	2.2	M	1MHz/0.25V	0.169	0.60	64
ALCH3225S4R7□T	4.7	M	1MHz/0.25V	0.26	0.45	43
ALCH3225S100□T	10	K	1MHz/0.25V	0.572	0.30	26
ALCH3225S220□T	22	K	1MHz/0.25V	0.923	0.25	19
ALCH3225S470□T	47	K	1MHz/0.25V	1.69	0.17	15
ALCH3225S101□T	100	K	1MHz/0.25V	4.55	0.10	10
ALCH3225S221□T	220	K	1MHz/0.25V	10.92	0.07	6.8
ALCH3225S331□T	330	K	1MHz/0.25V	13.00	0.06	5.6
ALCH3225S391□T	390	K	1MHz/0.25V	22.10	0.05	5.0
ALCH3225S471□T	470	K	1MHz/0.25V	24.70	0.04	5.0
ALCH3225S561□T	560	K	1KHz/0.25V	28.60	0.03	5.0

ALCH3225H1R0□T	1.0	M N	1MHz/0.25V	0.058	2.7	96
ALCH3225H1R5□T	1.5	M N	1MHz/0.25V	0.068	2.2	78
ALCH3225H2R2□T	2.2	M N	1MHz/0.25V	0.104	1.8	64
ALCH3225H3R3□T	3.3	M N	1MHz/0.25V	0.138	1.5	54
ALCH3225H4R7□T	4.7	K M	1MHz/0.25V	0.138	1.5	54
ALCH3225H5R6□T	5.6	K M	1MHz/0.25V	0.2	1.1	38
ALCH3225H6R8□T	6.8	K M	1MHz/0.25V	0.27	1	35
ALCH3225H8R2□T	8.2	K M	1MHz/0.25V	0.29	0.98	30
ALCH3225H100□T	10	K M	1MHz/0.25V	0.434	0.78	26
ALCH3225H120□T	12	K M	1MHz/0.25V	0.47	0.76	24
ALCH3225H150□T	15	K M	1MHz/0.25V	0.52	0.7	22

ALCH3225H180□T	18	K M	1MHz/0.25V	0.696	0.66	20
ALCH3225H220□T	22	K M	1MHz/0.25V	0.787	0.59	19
ALCH3225H270□T	27	K M	1MHz/0.25V	1.19	0.56	18
ALCH3225H330□T	33	K M	1MHz/0.25V	1.27	0.5	17
ALCH3225H390□T	39	K M	1MHz/0.25V	1.38	0.45	16
ALCH3225H470□T	47	K M	1MHz/0.25V	1.8	0.4	15
ALCH3225H560□T	56	K M	1MHz/0.25V	2.1	0.37	13
ALCH3225H680□T	68	K M	1MHz/0.25V	2.3	0.34	12
ALCH3225H820□T	82	K M	1MHz/0.25V	3	0.3	11
ALCH3225H101□T	100	K M	1MHz/0.25V	3.5	0.28	10
ALCH3225H151□T	150	K M	1MHz/0.25V	9.3	0.09	7
ALCH3225H221□T	220	K M	1MHz/0.25V	11.8	0.07	6
ALCH3225H331□T	330	K M	1MHz/0.25V	13	0.065	5
ALCH3225H471□T	470	K M	1KHz/0.25V	25	0.06	5
ALCH3225H561□T	560	K M	1KHz/0.25V	28	0.05	5

ALCH4532 Series

Part Number	Inductance (μH)	Tolerance (%)	Test Condition	DCR Max. (Ω)	IDC(A)	SRF Min. (MHz)
ALCH4532S1R0□T	1.0	M N	1MHz/0.25V	0.08	1.08	100
ALCH4532S1R5□T	1.5	M N	1MHz/0.25V	0.09	1.0	85
ALCH4532S2R2□T	2.2	M N	1MHz/0.25V	0.11	0.9	60
ALCH4532S3R3□T	3.3	M N	1MHz/0.25V	0.13	0.8	47
ALCH4532S4R7□T	4.7	K M	1MHz/0.25V	0.15	0.75	35
ALCH4532S5R6□T	5.6	K M	1MHz/0.25V	0.18	0.73	33
ALCH4532S6R8□T	6.8	K M	1MHz/0.25V	0.2	0.72	30
ALCH4532S8R2□T	8.2	K M	1MHz/0.25V	0.22	0.68	27
ALCH4532S100□T	10	K M	1MHz/0.25V	0.24	0.65	23
ALCH4532S120□T	12	K M	1MHz/0.25V	0.28	0.6	21
ALCH4532S150□T	15	K M	1MHz/0.25V	0.32	0.57	20
ALCH4532S220□T	22	K M	1MHz/0.25V	0.6	0.42	15
ALCH4532S330□T	33	K M	1MHz/0.25V	1	0.31	12
ALCH4532S470□T	47	K M	1MHz/0.25V	1.1	0.28	10
ALCH4532S680□T	68	K M	1MHz/0.25V	1.7	0.22	8.4
ALCH4532S820□T	82	K M	1MHz/0.25V	2.2	0.17	/
ALCH4532S101□T	100	K M	1KHz/0.25V	2.2	0.19	6.8
ALCH4532S151□T	150	K M	1KHz/0.25V	3.5	0.13	5.5
ALCH4532S221□T	220	K M	1KHz/0.25V	4	0.11	4.5
ALCH4532S331□T	330	K M	1KHz/0.25V	6.8	0.1	3.6
ALCH4532S471□T	470	K M	1KHz/0.25V	8.5	0.09	3
ALCH4532S561□T	560	K M	1KHz/0.25V	14	0.075	2
ALCH4532S681□T	680	K M	1KHz/0.25V	17	0.065	1.5

ALCH4532S102□T	1000	K M	1KHz/0.25V	25	0.05	/
ALCH4532S152□T	1500	K M	1KHz/0.25V	45	0.04	/
ALCH4532S222□T	2200	K M	1KHz/0.25V	55	0.03	/

ALCH5750 Series

Part Number	Inductance (μH)	Tolerance (%)	Test Condition	DCR Max. (Ω)	IDC(A)	SRF Min. (MHz)
ALCH5750S2R2□T	2.2	M N	1MHz/0.25V	0.041	3.2	80
ALCH5750S3R3□T	3.3	M N	1MHz/0.25V	0.051	2.9	40
ALCH5750S4R7□T	4.7	M N	1MHz/0.25V	0.058	2.7	30
ALCH5750S6R8□T	6.8	M N	1MHz/0.25V	0.104	2	25
ALCH5750S100□T	10	K M N	1MHz/0.25V	0.13	1.7	20
ALCH5750S150□T	15	K M N	1MHz/0.25V	0.21	1.4	17
ALCH5750S220□T	22	K M N	1MHz/0.25V	0.266	1.2	15
ALCH5750S330□T	33	K M N	1MHz/0.25V	0.448	0.9	12
ALCH5750S470□T	47	K M N	1MHz/0.25V	0.56	0.8	10
ALCH5750S560□T	56	K M N	1MHz/0.25V	0.85	0.74	8.6
ALCH5750S680□T	68	K M N	1MHz/0.25V	0.938	0.64	7.6
ALCH5750S101□T	100	K M N	100KHz/0.25V	1.204	0.56	6.5
ALCH5750S151□T	150	K M N	100KHz/0.25V	2.66	0.42	5
ALCH5750S221□T	220	K M N	100KHz/0.25V	3.36	0.32	4
ALCH5750S331□T	330	K M N	100KHz/0.25V	6.16	0.27	3.1
ALCH5750S471□T	470	K M N	100KHz/0.25V	7.56	0.24	2.4
ALCH5750S681□T	680	K M N	100KHz/0.25V	11.34	0.19	1.9
ALCH5750S102□T	1000	K M N	100KHz/0.25V	14.42	0.15	1.7
ALCH5750S122□T	1200	K M N	100KHz/0.25V	16	0.145	1.6
ALCH5750S152□T	1500	K M N	100KHz/0.25V	17.9	0.14	1.5
ALCH5750S222□T	2200	K M N	100KHz/0.25V	30.1	0.1	1.2
ALCH5750S392□T	3900	K M N	100KHz/0.25V	45	0.08	0.8
ALCH5750S472□T	4700	K M N	100KHz/0.25V	61.04	0.07	0.8
ALCH5750S822□T	8200	K M N	100KHz/0.25V	100	0.06	0.6
ALCH5750S103□T	10000	K M N	100KHz/0.25V	140	0.05	0.5

Note:

Specify the inductance tolerance, K(±10%),M(±20%),N(±30%)

IDC: The DC current at which causes initial inductance to decreases by 10%, or temperature to rise by 40°C, whichever is lower(At ambient reference temperature:25°C).