

ALSFD Series

Features

- Utilizing a miniaturized winding structure.
- These products provide low DC resistance and high current.
- Precision inductance tolerance is available.

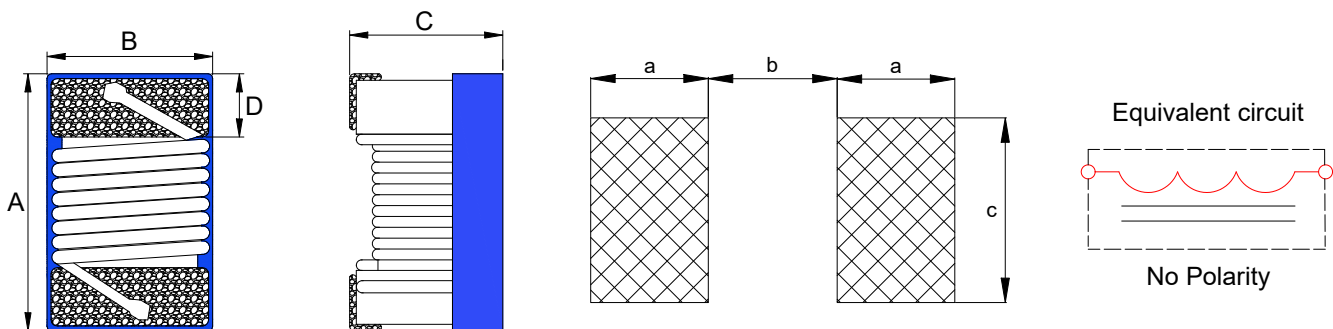
Applications

- Personal computer, Hard disk drives.
- xDSL modem and Cable modem.
- Digital camera and other electronic equipment.

Test Conditions

- L,Q : Agilent/HP E4991A+ Agilent/HP16197A.
- SRF : Agilent/HP E4991A+ Agilent/HP 16197A.
- Rdc : DIGITAL MILLIOHM METER Chroma 16502 or equivalent.
- Irms : DC current(A) that will cause an approximate ΔT of 40°C.
- Operating temperature range from -40°C to 85°C(Including self - temperature rise).

External dimensions (Unit:m/m)



TYPE	METRIC	A	B	C	D	a	b	c	Q'Ty / Reel
ALSFD100505	0402	1.19Max	0.70Max	0.66Max	0.23	0.36Ref	0.46Ref	0.66Ref	10000
ALSFD160808	0603	1.80Max	1.32Max	1.20Max	0.33	0.64Ref	0.64Ref	1.02Ref	4000
ALSFD201212	0805	2.40Max	1.75Max	1.52Max	0.44	1.02Ref	0.76Ref	1.78Ref	2000
ALSFD292520	1008	2.92Max	2.70Max	2.23Max	0.50	1.02Ref	1.27Ref	2.54Ref	2000
ALSFD362924	1210	3.60Max	2.90Max	2.40Max	0.50	1.02Ref	1.78Ref	2.54Ref	2000

Part Number Code

ALSFD 201212 □ 1R0
 A B C D

A: Series Name Wire Wound Inductors
 B: Dimensions(mm) 201212: 2.40×1.75×1.52 Max
 C: Tolerance J: ±5% K: ±10% M: ±20%
 D: Inductance 1R0=1.0uH

ALSFD Series

Part Number	Inductance (uH)	Test Freq. (MHz)	S R F (MHz)Min.	R D C (Ω)Max.	Irms (mA)Max.
ALSFD100505□20N	0.020	7.9	2600	0.05	1600
ALSFD100505□22N	0.022	7.9	2500	0.065	1300
ALSFD100505□33N	0.033	7.9	2300	0.06	1400
ALSFD100505□36N	0.036	7.9	2300	0.075	1300
ALSFD100505□39N	0.039	7.9	2200	0.115	830
ALSFD100505□51N	0.051	7.9	1930	0.07	1100
ALSFD100505□56N	0.056	7.9	1900	0.095	1000
ALSFD100505□72N	0.072	7.9	1650	0.1	1000
ALSFD100505□78N	0.078	7.9	1600	0.13	970
ALSFD100505□R10	0.10	7.9	1400	0.16	900
ALSFD100505□R11	0.11	7.9	1000	0.2	850
ALSFD100505□R14	0.14	7.9	1220	0.26	630
ALSFD100505□R18	0.18	7.9	1150	0.28	560
ALSFD100505□R20	0.20	7.9	1000	0.44	400
ALSFD100505□R22	0.22	7.9	1150	0.53	380
ALSFD100505□R25	0.25	7.9	900	0.36	520
ALSFD100505□R27	0.27	7.9	860	0.9	360
ALSFD100505□R30	0.30	7.9	860	0.41	420
ALSFD100505□R33	0.33	7.9	820	0.56	350
ALSFD100505□R36	0.36	7.9	810	0.575	300
ALSFD100505□R39	0.39	7.9	760	1.0	300
ALSFD100505□R42	0.42	7.9	700	0.7	340
ALSFD100505□R47	0.47	7.9	650	0.73	310
ALSFD100505□R56	0.56	7.9	600	1.2	200
ALSFD100505□R82	0.82	7.9	385	5.85	90
ALSFD100505□1R0	1.00	7.9	200	6.5	50

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Part Number	Inductance (uH)	Test Freq. (MHz)	Q Min.	S R F (MHz)Min.	R D C (Ω)Max.	Irms (mA)Max.
ALSFD160808□47N	0.047	7.9	12	1700	0.098	1500
ALSFD160808□R10	0.10	7.9	12	1150	0.13	1000
ALSFD160808□R15	0.15	7.9	12	950	0.15	1000
ALSFD160808□R18	0.18	7.9	12	950	0.2	1000
ALSFD160808□R20	0.20	7.9	12	1030	0.2	740
ALSFD160808□R22	0.22	7.9	12	775	0.3	700
ALSFD160808□R27	0.27	7.9	12	775	0.3	700
ALSFD160808□R33	0.33	7.9	12	725	0.32	600
ALSFD160808□R39	0.39	7.9	12	620	0.51	500
ALSFD160808□R44	0.44	7.9	12	620	0.65	400

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Part Number	Inductance (uH)	Test Freq. (MHz)	Q Min.	S R F (MHz)Min.	R D C (Ω)Max.	Irms (mA)Max.
ALSFD160808□R47	0.47	7.9	12	600	0.62	420
ALSFD160808□R51	0.51	7.9	12	600	0.65	400
ALSFD160808□R56	0.56	7.9	12	600	0.65	400
ALSFD160808□R65	0.65	7.9	12	510	0.52	430
ALSFD160808□R68	0.68	7.9	12	500	1.0	380
ALSFD160808□R75	0.75	7.9	12	500	1.3	350
ALSFD160808□R82	0.82	7.9	12	500	1.3	350
ALSFD160808□1R0	1.0	7.9	12	400	1.5	330
ALSFD160808□1R2	1.2	7.9	12	380	1.7	320
ALSFD160808□1R5	1.5	7.9	12	300	1.9	310
ALSFD160808□1R8	1.8	7.9	12	180	2.2	300
ALSFD160808□2R0	2.0	7.9	12	180	2.3	280
ALSFD160808□2R2	2.2	7.9	12	180	2.3	280
ALSFD160808□2R7	2.7	7.9	12	150	2.6	250
ALSFD160808□3R3	3.3	7.9	12	150	2.9	230
ALSFD160808□3R9	3.9	7.9	12	120	3.2	210
ALSFD160808□4R7	4.7	7.9	12	100	4.0	200
ALSFD160808□5R1	5.1	7.9	12	32	2.6	240
ALSFD160808□5R6	5.6	7.9	12	32	2.6	240
ALSFD160808□6R8	6.8	7.9	12	31	3.9	200
ALSFD160808□8R2	8.2	7.9	12	26	4.2	190
ALSFD160808□100	10	2.5	10	25	4.8	180
ALSFD160808□150	15	2.5	10	23	8.5	170
ALSFD160808□180	18	2.5	10	22	10.0	160
ALSFD160808□220	22	2.5	10	10	12.0	100
ALSFD201212□R10	0.10	7.9	19	340	0.69	500
ALSFD201212□R15	0.15	7.9	19	480	0.3	600
ALSFD201212□R22	0.22	7.9	19	480	0.4	600
ALSFD201212□R33	0.33	7.9	19	500	0.31	720
ALSFD201212□R39	0.39	7.9	19	500	0.31	720
ALSFD201212□R47	0.47	7.9	19	500	0.31	720
ALSFD201212□R68	0.68	7.9	19	400	0.46	590
ALSFD201212□R88	0.88	7.9	12	360	1.0	520
ALSFD201212□R91	0.91	7.9	12	360	1.0	500
ALSFD201212□1R0	1.0	7.9	12	360	1.0	430
ALSFD201212□1R2	1.2	7.9	12	350	1.15	410
ALSFD201212□1R5	1.5	7.9	12	300	1.2	400
ALSFD201212□1R8	1.8	7.9	12	300	1.35	380
ALSFD201212□2R2	2.2	7.9	12	170	1.5	350
ALSFD201212□2R7	2.7	7.9	12	100	1.7	320
ALSFD201212□3R3	3.3	7.9	12	90	1.8	300
ALSFD201212□3R9	3.9	7.9	12	90	1.95	280

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Part Number	Inductance (uH)	Test Freq. (MHz)	Q Min.	S R F (MHz)Min.	R D C (Ω)Max.	Irms (mA)Max.
ALSFD201212□4R7	4.7	7.9	12	85	2.05	250
ALSFD201212□5R6	5.6	7.9	12	70	2.3	240
ALSFD201212□6R8	6.8	7.9	12	55	2.6	220
ALSFD201212□8R0	8.0	7.9	12	50	3.0	180
ALSFD201212□8R2	8.2	7.9	12	50	3.0	180
ALSFD201212□100	10	2.5	10	30	3.2	150
ALSFD201212□120	12	2.5	10	17	3.5	100
ALSFD201212□150	15	2.5	10	16	4.2	100
ALSFD201212□220	22	2.5	10	14	6.0	80
ALSFD201212□390	39	2.5	10	14	10.0	60
ALSFD201212□470	47	2.5	10	14	13.8	55
ALSFD201212□560	56	2.5	10	8	14.0	30
ALSFD201212□101	100	1	8	5	25.0	30
ALSFD292520□R56	0.56	7.9	12	230	0.62	700
ALSFD292520□R68	0.68	7.9	12	230	0.62	700
ALSFD292520□R82	0.82	7.9	12	230	0.62	700
ALSFD292520□1R0	1.0	7.9	18	230	0.62	700
ALSFD292520□1R2	1.2	7.9	18	210	0.68	650
ALSFD292520□1R5	1.5	7.9	18	190	0.76	630
ALSFD292520□1R8	1.8	7.9	18	170	0.84	600
ALSFD292520□2R2	2.2	7.9	18	150	1.10	520
ALSFD292520□2R7	2.7	7.9	18	135	1.28	490
ALSFD292520□3R3	3.3	7.9	18	120	1.46	450
ALSFD292520□3R9	3.9	7.9	18	105	1.56	420
ALSFD292520□4R7	4.7	7.9	18	90	2.00	400
ALSFD292520□5R6	5.6	7.9	15	80	1.8	380
ALSFD292520□6R8	6.8	7.9	15	70	2.00	360
ALSFD292520□8R2	8.2	7.9	15	65	2.65	330
ALSFD292520□100	10	2.5	12	60	2.95	300
ALSFD292520□180	18	2.5	12	26	4.00	160
ALSFD292520□220	22	2.5	12	22	6.14	270
ALSFD292520□300	30	2.5	10	12	6.80	200
ALSFD292520□330	33	2.5	10	12	7.00	200
ALSFD292520□390	39	2.5	10	16	10.00	170
ALSFD292520□470	47	2.5	10	10	10.70	160
ALSFD292520□560	56	2.5	10	8	12.00	170
ALSFD292520□680	68	2.5	10	6	13.50	145
ALSFD292520□820	82	2.5	8	6	20.00	100
ALSFD362924□R56	0.56	25	20	180	0.55	450
ALSFD362924□1R0	1.0	25	45	340	1.85	820
ALSFD362924□1R5	1.5	7.9	20	200	0.40	450
ALSFD362924□1R8	1.8	7.9	20	195	0.80	450
ALSFD362924□2R2	2.2	7.9	20	175	0.80	450
ALSFD362924□4R7	4.7	7.9	18	60	1.30	350

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Part Number	Inductance (uH)	Test Freq. (MHz)	Q Min.	S R F (MHz)Min.	R D C (Ω)Max.	I _{rms} (mA)Max.
ALSFD362924□5R6	5.6	2.5	18	50	2.00	320
ALSFD362924□100	10	2.5	15	30	1.00	300
ALSFD362924□150	15	2.5	15	22	2.00	225
ALSFD362924□180	18	2.5	15	22	2.05	215
ALSFD362924□220	22	2.5	15	20	2.40	210
ALSFD362924□330	33	2.5	15	15	2.90	160
ALSFD362924□470	47	2.5	15	10	5.20	140
ALSFD362924□560	56	2.5	8	8	5.60	125
ALSFD362924□680	68	1	6	10	13.0	100
ALSFD362924□820	82	1	6	10	13.0	100
ALSFD362924□101	100	1	6	10	13.0	100
ALSFD362924□121	120	1	6	10	13.0	100
ALSFD362924□151	150	1	10	4	20.0	80
ALSFD362924□181	180	1	8	3	14.5	70
ALSFD362924□201	200	1	8	3	30.0	65
ALSFD362924□221	220	1	8	3	30.0	65
ALSFD362924□271	270	1	8	2	33.0	60
ALSFD362924□331	330	1	8	2	35.0	55
ALSFD362924□471	470	1	8	2	42.0	40
ALSFD362924□561	560	1	8	2	60.0	10
ALSFD362924□621	620	1	8	2	85.0	10

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