

AALDF Series

Features

- Qualified to AEC-Q200.
- Utilizing a miniaturized winding structure.
- These products provide high Q characteristics
- Recin-coated surface enables excellent mounting.
- Precision inductance tolerance is available

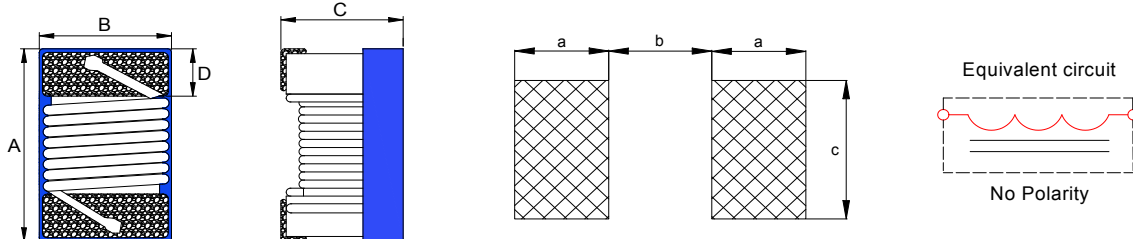
Applications

- Personal computer, Hard disk drives.
- ADSL Modem and Cable Modem.
- Digital camera and other electronic equipment.

Test Equipment and 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 105°C (Including self - temperature rise).

External Dimensions (Unit:m/m)



TYPE	METRIC	A	B	C	D	a	b	c	Q'Ty/Reel
AALDF100505-DS	0402	1.19Max	0.7Max	0.66Max	0.23Ref	0.36Ref	0.46Ref	0.66Ref	10000
AALDF160808-DS	0603	1.80Max	1.32Max	1.20Max	0.33Ref	0.64Ref	0.64Ref	1.02Ref	4000
AALDF201212-DS	0805	2.40Max	1.75Max	1.52Max	0.44Ref	1.02Ref	0.76Ref	1.78Ref	2000
AALDF292520-DS	1008	2.92Max	2.7Max	2.23Max	0.50Ref	1.02Ref	1.27Ref	2.54Ref	2000
AALDF362924-DS	1210	3.60Max	2.9Max	2.40Max	0.50Ref	1.02Ref	1.78Ref	2.54Ref	2000

2. Part Number Code

AALDF	100505	□	20N	DS
Series Name	Dimensions: L*W*H	Tolerance J:5% K:10% M:20%	Inductance	Internal Controls

AALDF-DS Series

Part Number	Inductance (uH)	Test Freq. (MHz)	SRF (MHz)Min.	RDC (Ω)Max.	I _{rms} (mA)Max.
AALDF100505□20NDS	0.020	7.9	2600	0.05	1600
AALDF100505□22NDS	0.022	7.9	2500	0.065	1300
AALDF100505□33NDS	0.033	7.9	2300	0.06	1400
AALDF100505□36NDS	0.036	7.9	2300	0.075	1300
AALDF100505□39NDS	0.039	7.9	2200	0.115	830
AALDF100505□51NDS	0.051	7.9	1930	0.07	1100
AALDF100505□56NDS	0.056	7.9	1900	0.095	1000
AALDF100505□72NDS	0.072	7.9	1650	0.1	1000
AALDF100505□78NDS	0.078	7.9	1600	0.13	970
AALDF100505□R10DS	0.10	7.9	1400	0.16	900
AALDF100505□R11DS	0.11	7.9	1000	0.2	850
AALDF100505□R14DS	0.14	7.9	1220	0.26	630
AALDF100505□R18DS	0.18	7.9	1150	0.28	560
AALDF100505□R20DS	0.20	7.9	1000	0.44	400
AALDF100505□R22DS	0.22	7.9	1150	0.53	380
AALDF100505□R25DS	0.25	7.9	900	0.36	520
AALDF100505□R27DS	0.27	7.9	860	0.9	360
AALDF100505□R30DS	0.30	7.9	860	0.41	420
AALDF100505□R33DS	0.33	7.9	820	0.56	350
AALDF100505□R36DS	0.36	7.9	810	0.575	300
AALDF100505□R39DS	0.39	7.9	760	1.0	300
AALDF100505□R42DS	0.42	7.9	700	0.7	340
AALDF100505□R47DS	0.47	7.9	650	0.73	310
AALDF100505□R56DS	0.56	7.9	600	1.2	200
AALDF100505□R82DS	0.82	7.9	385	5.85	90
AALDF100505□1R0DS	1.00	7.9	200	6.5	50

AALDF-DS Series

Part Number	Inductance (uH)	Test Freq. (MHz)	Q min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.
AALDF160808□47NDS	0.047	7.9	12	1700	0.098	1500
AALDF160808□R10DS	0.10	7.9	12	1150	0.13	1000
AALDF160808□R15DS	0.15	7.9	12	950	0.15	1000
AALDF160808□R18DS	0.18	7.9	12	950	0.2	1000
AALDF160808□R20DS	0.20	7.9	12	1030	0.2	740
AALDF160808□R22DS	0.22	7.9	12	775	0.3	700
AALDF160808□R27DS	0.27	7.9	12	775	0.3	700
AALDF160808□R33DS	0.33	7.9	12	725	0.32	600
AALDF160808□R39DS	0.39	7.9	12	620	0.51	500
AALDF160808□R44DS	0.44	7.9	12	620	0.65	400
AALDF160808□R47DS	0.47	7.9	12	600	0.62	420
AALDF160808□R51DS	0.51	7.9	12	600	0.65	400
AALDF160808□R56DS	0.56	7.9	12	600	0.65	400
AALDF160808□R65DS	0.65	7.9	12	510	0.52	430
AALDF160808□R68DS	0.68	7.9	12	500	1.0	380
AALDF160808□R75DS	0.75	7.9	12	500	1.3	350
AALDF160808□R82DS	0.82	7.9	12	500	1.3	350
AALDF160808□1R0DS	1.0	7.9	12	400	1.5	330
AALDF160808□1R2DS	1.2	7.9	12	380	1.7	320
AALDF160808□1R5DS	1.5	7.9	12	300	1.9	310
AALDF160808□1R8DS	1.8	7.9	12	180	2.2	300
AALDF160808□2R0DS	2.0	7.9	12	180	2.3	280
AALDF160808□2R2DS	2.2	7.9	12	180	2.3	280
AALDF160808□2R7DS	2.7	7.9	12	150	2.6	250
AALDF160808□3R3DS	3.3	7.9	12	150	2.9	230
AALDF160808□3R9DS	3.9	7.9	12	120	3.2	210
AALDF160808□4R7DS	4.7	7.9	12	100	4.0	200
AALDF160808□5R1DS	5.1	7.9	12	32	2.6	240
AALDF160808□5R6DS	5.6	7.9	12	32	2.6	240
AALDF160808□6R8DS	6.8	7.9	12	31	3.9	200
AALDF160808□8R2DS	8.2	7.9	12	26	4.2	190
AALDF160808□100DS	10	2.5	10	25	4.8	180

AALDF-DS Series

Part Number	Inductance (uH)	Test Freq. (MHz)	Q min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.
AALDF160808□150DS	15	2.5	10	23	8.5	170
AALDF160808□180DS	18	2.5	10	22	10.0	160
AALDF160808□220DS	22	2.5	10	10	12.0	100
AALDF201212□R10DS	0.10	7.9	19	340	0.69	500
AALDF201212□R15DS	0.15	7.9	19	480	0.3	600
AALDF201212□R22DS	0.22	7.9	19	480	0.4	600
AALDF201212□R33DS	0.33	7.9	19	500	0.31	720
AALDF201212□R39DS	0.39	7.9	19	500	0.31	720
AALDF201212□R47DS	0.47	7.9	19	500	0.31	720
AALDF201212□R68DS	0.68	7.9	19	400	0.46	590
AALDF201212□R88DS	0.88	7.9	12	360	1.0	520
AALDF201212□R91DS	0.91	7.9	12	360	1.0	500
AALDF201212□1R0DS	1.0	7.9	12	360	1.0	430
AALDF201212□1R2DS	1.2	7.9	12	350	1.15	410
AALDF201212□1R5DS	1.5	7.9	12	300	1.2	400
AALDF201212□1R8DS	1.8	7.9	12	300	1.35	380
AALDF201212□2R2DS	2.2	7.9	12	170	1.5	350
AALDF201212□2R7DS	2.7	7.9	12	100	1.7	320
AALDF201212□3R3DS	3.3	7.9	12	90	1.8	300
AALDF201212□3R9DS	3.9	7.9	12	90	1.95	280
AALDF201212□4R7DS	4.7	7.9	12	85	2.05	250
AALDF201212□5R6DS	5.6	7.9	12	70	2.3	240
AALDF201212□6R8DS	6.8	7.9	12	55	2.6	220
AALDF201212□8R0DS	8.0	7.9	12	50	3.0	180
AALDF201212□8R2DS	8.2	7.9	12	50	3.0	180
AALDF201212□100DS	10	2.5	10	30	3.2	150
AALDF201212□120DS	12	2.5	10	17	3.5	100
AALDF201212□150DS	15	2.5	10	16	4.2	100
AALDF201212□220DS	22	2.5	10	14	6.0	80
AALDF201212□390DS	39	2.5	10	14	10.0	60
AALDF201212□470DS	47	2.5	10	14	13.8	55
AALDF201212□560DS	56	2.5	10	8	14.0	30

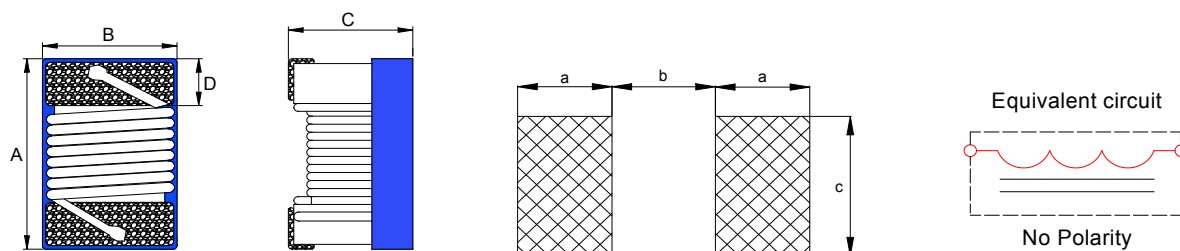
AALDF-DS Series

Part Number	Inductance (uH)	Test Freq. (MHz)	Q min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.
AALDF201212□101DS	100	1	8	5	25.0	30
AALDF292520□R56DS	0.56	7.9	12	230	0.62	700
AALDF292520□R68DS	0.68	7.9	12	230	0.62	700
AALDF292520□R82DS	0.82	7.9	12	230	0.62	700
AALDF292520□1R0DS	1.0	7.9	18	230	0.62	700
AALDF292520□1R2DS	1.2	7.9	18	210	0.68	650
AALDF292520□1R5DS	1.5	7.9	18	190	0.76	630
AALDF292520□1R8DS	1.8	7.9	18	170	0.84	600
AALDF292520□2R2DS	2.2	7.9	18	150	1.10	520
AALDF292520□2R7DS	2.7	7.9	18	135	1.28	490
AALDF292520□3R3DS	3.3	7.9	18	120	1.46	450
AALDF292520□3R9DS	3.9	7.9	18	105	1.56	420
AALDF292520□4R7DS	4.7	7.9	18	90	2.00	400
AALDF292520□5R6DS	5.6	7.9	15	80	1.8	380
AALDF292520□6R8DS	6.8	7.9	15	70	2.00	360
AALDF292520□8R2DS	8.2	7.9	15	65	2.65	330
AALDF292520□100DS	10	2.5	12	60	2.95	300
AALDF292520□180DS	18	2.5	12	26	4.00	160
AALDF292520□220DS	22	2.5	12	22	6.14	270
AALDF292520□300DS	30	2.5	10	12	6.80	200
AALDF292520□330DS	33	2.5	10	12	7.00	200
AALDF292520□390DS	39	2.5	10	16	10.00	170
AALDF292520□470DS	47	2.5	10	10	10.70	160
AALDF292520□560DS	56	2.5	10	8	12.00	170
AALDF292520□680DS	68	2.5	10	6	13.50	145
AALDF292520□820DS	82	2.5	8	6	20.00	100
AALDF362924□R56DS	0.56	25	20	180	0.55	450
AALDF362924□1R0DS	1.0	25	45	340	1.85	820
AALDF362924□1R5DS	1.5	7.9	20	200	0.40	450
AALDF362924□1R8DS	1.8	7.9	20	195	0.80	450
AALDF362924□2R2DS	2.2	7.9	20	175	0.80	450
AALDF362924□4R7DS	4.7	7.9	18	60	1.30	350
AALDF362924□5R6DS	5.6	2.5	18	50	2.00	320

AALDF-DS Series

Part Number	Inductance (uH)	Test Freq. (MHz)	Q min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.
AALDF362924□100DS	10	2.5	15	30	1.00	300
AALDF362924□150DS	15	2.5	15	22	2.00	225
AALDF362924□180DS	18	2.5	15	22	2.05	215
AALDF362924□220DS	22	2.5	15	20	2.40	210
AALDF362924□330DS	33	2.5	15	15	2.90	160
AALDF362924□470DS	47	2.5	15	10	5.20	140
AALDF362924□560DS	56	2.5	8	8	5.60	125
AALDF362924□680DS	68	1	6	10	13.0	100
AALDF362924□820DS	82	1	6	10	13.0	100
AALDF362924□101DS	100	1	6	10	13.0	100
AALDF362924□121DS	120	1	6	10	13.0	100
AALDF362924□151DS	150	1	10	4	20.0	80
AALDF362924□181DS	180	1	8	3	14.5	70
AALDF362924□201DS	200	1	8	3	30.0	65
AALDF362924□221DS	220	1	8	3	30.0	65
AALDF362924□271DS	270	1	8	2	33.0	60
AALDF362924□331DS	330	1	8	2	35.0	55
AALDF362924□471DS	470	1	8	2	42.0	40
AALDF362924□561DS	560	1	8	2	60.0	10
AALDF362924□621DS	620	1	8	2	85.0	10

External Dimensions (Unit:m/m)



TYPE	METRIC	A	B	C	D	a	b	c	Q'Ty/Reel
AALDF160808-D	0603	1.80Max	1.25Max	1.20Max	0.33Ref	0.64Ref	0.64Ref	1.02Ref	4000
AALDF201212-D	0805	2.40Max	1.73Max	1.52Max	0.44Ref	1.02Ref	0.76Ref	1.78Ref	2000

AALDF-D Series

Part Number	Inductance (uH)	Test Freq. (MHz)	Q min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.
AALDF160808K1R0D	1.0	7.9	12	390	0.41	800
AALDF160808K1R5D	1.5	7.9	12	160	0.52	650
AALDF160808K1R8D	1.8	7.9	12	121	0.56	550
AALDF160808K2R2D	2.2	7.9	12	50	0.50	600
AALDF160808K3R3D	3.3	7.9	12	66	0.91	420
AALDF160808K4R7D	4.7	7.9	12	51	0.97	400
AALDF160808K5R6D	5.6	7.9	12	47	1.43	380
AALDF160808K6R8D	6.8	7.9	12	43	1.95	340
AALDF160808K8R2D	8.2	7.9	12	40	2.18	300
AALDF160808K100D	10	2.5	14	36	2.40	280
AALDF160808K150D	15	2.5	12	29	3.38	200
AALDF160808K220D	22	2.5	12	24	4.69	200
AALDF160808K270D	27	2.5	12	20	6.76	140
AALDF160808K330D	33	2.5	12	10	8.58	100
AALDF160808K470D	47	2.5	10	5	12	100
AALDF201212KR47D	0.47	7.9	14	850	0.10	1400
AALDF201212K1R0D	1.0	7.9	14	208	0.169	1100
AALDF201212K1R5D	1.5	7.9	14	130	0.22	880
AALDF201212K1R8D	1.8	7.9	14	112	0.26	860
AALDF201212K2R2D	2.2	7.9	12	80	0.312	740
AALDF201212K3R3D	3.3	7.9	12	50	0.36	620
AALDF201212K4R7D	4.7	7.9	14	51	0.559	520

AALDF-D Series

Part Number	Inductance (uH)	Test Freq. (MHz)	Q min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.
AALDF201212K5R6D	5.6	8	12	42	0.65	480
AALDF201212K6R8D	6.8	7.9	14	35	0.88	420
AALDF201212K8R2D	8.2	7.9	13	33	0.94	400
AALDF201212K100D	10	2.5	14	25	1.17	290
AALDF201212K150D	15	2.5	15	28	1.82	300
AALDF201212K180D	18	2.5	15	27	2.01	280
AALDF201212K220D	22	2.5	15	20	2.288	240
AALDF201212K270D	27	2.5	15	17	2.6	220
AALDF201212K330D	33	2.5	15	17	3.055	200
AALDF201212K470D	47	2.5	14	15	4.42	160
AALDF201212K101D	100	1.0	10	5	9.75	100
AALDF201212K111D	110	1.0	10	5	9.75	100