

AHWF-DS/-D 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

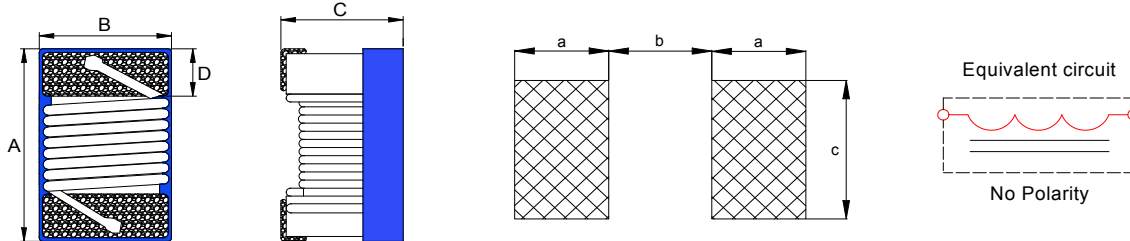
Applications

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

Test Equipment and Conditions

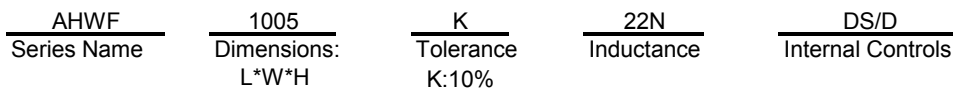
- L,Q : Agilent/HP E4991A+ Agilent/HP16197A.
- SRF : Agilent/HP E4991A+ Agilent/HP 16197A.
- Rdc : DIGITAL MILLIOHM METER Chroma 16502 or equivalent.
- Irms : DC current(A) that will cause an approximate ΔT of 40°C.
- Operating temperature range from -40°C to 105°C (Including self - temperature rise).

External Dimensions (Unit:m/m)



TYPE	METRIC	A	B	C	D	a	b	c	Q'Ty/Reel
AHWF1005-DS	0402	1.19Max	0.7Max	0.66Max	0.23Ref	0.36Ref	0.46Ref	0.66Ref	10000
AHWF1608-DS	0603	1.80Max	1.32Max	1.20Max	0.33Ref	0.64Ref	0.64Ref	1.02Ref	4000
AHWF2012-DS	0805	2.40Max	1.75Max	1.52Max	0.44Ref	1.02Ref	0.76Ref	1.78Ref	2000
AHWF2520-DS	1008	2.92Max	2.7Max	2.23Max	0.50Ref	1.02Ref	1.27Ref	2.54Ref	2000
AHWF3225-DS	1210	3.60Max	2.9Max	2.40Max	0.50Ref	1.02Ref	1.78Ref	2.54Ref	2000

2. Part Number Code



AHWF-DS Series

Part Number	Inductance (uH)	Test Freq. (MHz)	SRF (MHz)Min.	RDC (Ω)Max.	I _{rms} (mA)Max.
AHWF1005K20NDS	0.020	7.9	2600	0.05	1600
AHWF1005K22NDS	0.022	7.9	2500	0.065	1300
AHWF1005K33NDS	0.033	7.9	2300	0.06	1400
AHWF1005K36NDS	0.036	7.9	2300	0.075	1300
AHWF1005K39NDS	0.039	7.9	2200	0.115	830
AHWF1005K51NDS	0.051	7.9	1930	0.07	1100
AHWF1005K56NDS	0.056	7.9	1900	0.095	1000
AHWF1005K72NDS	0.072	7.9	1650	0.1	1000
AHWF1005K78NDS	0.078	7.9	1600	0.13	970
AHWF1005KR10DS	0.10	7.9	1400	0.16	900
AHWF1005KR11DS	0.11	7.9	1000	0.2	850
AHWF1005KR14DS	0.14	7.9	1220	0.26	630
AHWF1005KR18DS	0.18	7.9	1150	0.28	560
AHWF1005KR20DS	0.20	7.9	1000	0.44	400
AHWF1005KR22DS	0.22	7.9	1150	0.53	380
AHWF1005KR25DS	0.25	7.9	900	0.36	520
AHWF1005KR27DS	0.27	7.9	860	0.9	360
AHWF1005KR30DS	0.30	7.9	860	0.41	420
AHWF1005KR33DS	0.33	7.9	820	0.56	350
AHWF1005KR36DS	0.36	7.9	810	0.575	300
AHWF1005KR39DS	0.39	7.9	760	1.0	300
AHWF1005KR42DS	0.42	7.9	700	0.7	340
AHWF1005KR47DS	0.47	7.9	650	0.73	310
AHWF1005KR56DS	0.56	7.9	600	1.2	200
AHWF1005KR82DS	0.82	7.9	385	5.85	90
AHWF1005K1R0DS	1.00	7.9	200	6.5	50

AHWF-DS Series

Part Number	Inductance (uH)	Test Freq. (MHz)	Q min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.
AHWF1608K47NDS	0.047	7.9	12	1700	0.098	1500
AHWF1608KR10DS	0.10	7.9	12	1150	0.13	1000
AHWF1608KR15DS	0.15	7.9	12	950	0.15	1000
AHWF1608KR18DS	0.18	7.9	12	950	0.2	1000
AHWF1608KR20DS	0.20	7.9	12	1030	0.2	740
AHWF1608KR22DS	0.22	7.9	12	775	0.3	700
AHWF1608KR27DS	0.27	7.9	12	775	0.3	700
AHWF1608KR33DS	0.33	7.9	12	725	0.32	600
AHWF1608KR39DS	0.39	7.9	12	620	0.51	500
AHWF1608KR44DS	0.44	7.9	12	620	0.65	400
AHWF1608KR47DS	0.47	7.9	12	600	0.62	420
AHWF1608KR51DS	0.51	7.9	12	600	0.65	400
AHWF1608KR56DS	0.56	7.9	12	600	0.65	400
AHWF1608KR65DS	0.65	7.9	12	510	0.52	430
AHWF1608KR68DS	0.68	7.9	12	500	1.0	380
AHWF1608KR75DS	0.75	7.9	12	500	1.3	350
AHWF1608KR82DS	0.82	7.9	12	500	1.3	350
AHWF1608K1R0DS	1.0	7.9	12	400	1.5	330
AHWF1608K1R2DS	1.2	7.9	12	380	1.7	320
AHWF1608K1R5DS	1.5	7.9	12	300	1.9	310
AHWF1608K1R8DS	1.8	7.9	12	180	2.2	300
AHWF1608K2R0DS	2.0	7.9	12	180	2.3	280
AHWF1608K2R2DS	2.2	7.9	12	180	2.3	280
AHWF1608K2R7DS	2.7	7.9	12	150	2.6	250
AHWF1608K3R3DS	3.3	7.9	12	150	2.9	230
AHWF1608K3R9DS	3.9	7.9	12	120	3.2	210
AHWF1608K4R7DS	4.7	7.9	12	100	4.0	200
AHWF1608K5R1DS	5.1	7.9	12	32	2.6	240
AHWF1608K5R6DS	5.6	7.9	12	32	2.6	240
AHWF1608K6R8DS	6.8	7.9	12	31	3.9	200
AHWF1608K8R2DS	8.2	7.9	12	26	4.2	190
AHWF1608K100DS	10	2.5	10	25	4.8	180

AHWF-DS Series

Part Number	Inductance (uH)	Test Freq. (MHz)	Q min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.
AHWF1608K150DS	15	2.5	10	23	8.5	170
AHWF1608K180DS	18	2.5	10	22	10.0	160
AHWF1608K220DS	22	2.5	10	10	12.0	100
AHWF2012KR10DS	0.10	7.9	19	340	0.69	500
AHWF2012KR15DS	0.15	7.9	19	480	0.3	600
AHWF2012KR22DS	0.22	7.9	19	480	0.4	600
AHWF2012KR33DS	0.33	7.9	19	500	0.31	720
AHWF2012KR39DS	0.39	7.9	19	500	0.31	720
AHWF2012KR47DS	0.47	7.9	19	500	0.31	720
AHWF2012KR68DS	0.68	7.9	19	400	0.46	590
AHWF2012KR88DS	0.88	7.9	12	360	1.0	520
AHWF2012KR91DS	0.91	7.9	12	360	1.0	500
AHWF2012K1R0DS	1.0	7.9	12	360	1.0	430
AHWF2012K1R2DS	1.2	7.9	12	350	1.15	410
AHWF2012K1R5DS	1.5	7.9	12	300	1.2	400
AHWF2012K1R8DS	1.8	7.9	12	300	1.35	380
AHWF2012K2R2DS	2.2	7.9	12	170	1.5	350
AHWF2012K2R7DS	2.7	7.9	12	100	1.7	320
AHWF2012K3R3DS	3.3	7.9	12	90	1.8	300
AHWF2012K3R9DS	3.9	7.9	12	90	1.95	280
AHWF2012K4R7DS	4.7	7.9	12	85	2.05	250
AHWF2012K5R6DS	5.6	7.9	12	70	2.3	240
AHWF2012K6R8DS	6.8	7.9	12	55	2.6	220
AHWF2012K8R0DS	8.0	7.9	12	50	3.0	180
AHWF2012K8R2DS	8.2	7.9	12	50	3.0	180
AHWF2012K100DS	10	2.5	10	30	3.2	150
AHWF2012K120DS	12	2.5	10	17	3.5	100
AHWF2012K150DS	15	2.5	10	16	4.2	100
AHWF2012K220DS	22	2.5	10	14	6.0	80
AHWF2012K390DS	39	2.5	10	14	10.0	60
AHWF2012K470DS	47	2.5	10	14	13.8	55
AHWF2012K560DS	56	2.5	10	8	14.0	30

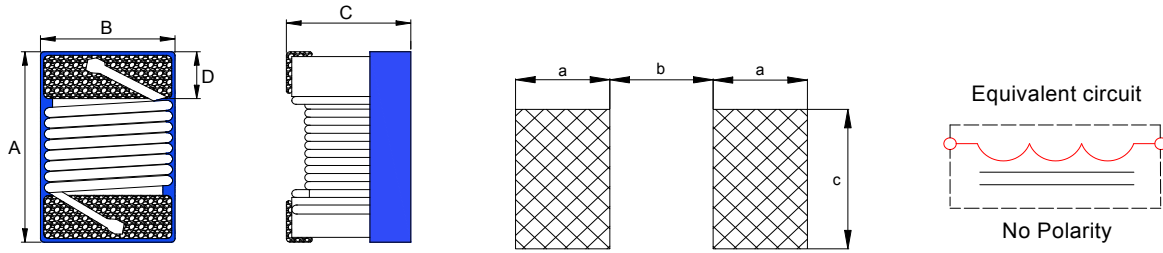
AHWF-DS Series

Part Number	Inductance (uH)	Test Freq. (MHz)	Q min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.
AHWF2012K101DS	100	1	8	5	25.0	30
AHWF2520KR56DS	0.56	7.9	12	230	0.62	700
AHWF2520KR68DS	0.68	7.9	12	230	0.62	700
AHWF2520KR82DS	0.82	7.9	12	230	0.62	700
AHWF2520K1R0DS	1.0	7.9	18	230	0.62	700
AHWF2520K1R2DS	1.2	7.9	18	210	0.68	650
AHWF2520K1R5DS	1.5	7.9	18	190	0.76	630
AHWF2520K1R8DS	1.8	7.9	18	170	0.84	600
AHWF2520K2R2DS	2.2	7.9	18	150	1.10	520
AHWF2520K2R7DS	2.7	7.9	18	135	1.28	490
AHWF2520K3R3DS	3.3	7.9	18	120	1.46	450
AHWF2520K3R9DS	3.9	7.9	18	105	1.56	420
AHWF2520K4R7DS	4.7	7.9	18	90	2.00	400
AHWF2520K5R6DS	5.6	7.9	15	80	1.8	380
AHWF2520K6R8DS	6.8	7.9	15	70	2.00	360
AHWF2520K8R2DS	8.2	7.9	15	65	2.65	330
AHWF2520K100DS	10	2.5	12	60	2.95	300
AHWF2520K180DS	18	2.5	12	26	4.00	160
AHWF2520K220DS	22	2.5	12	22	6.14	270
AHWF2520K300DS	30	2.5	10	12	6.80	200
AHWF2520K330DS	33	2.5	10	12	7.00	200
AHWF2520K390DS	39	2.5	10	16	10.00	170
AHWF2520K470DS	47	2.5	10	10	10.70	160
AHWF2520K560DS	56	2.5	10	8	12.00	170
AHWF2520K680DS	68	2.5	10	6	13.50	145
AHWF2520K820DS	82	2.5	8	6	20.00	100
AHWF3225KR56DS	0.56	25	20	180	0.55	450
AHWF3225K1R0DS	1.0	25	45	340	1.85	820
AHWF3225K1R5DS	1.5	7.9	20	200	0.40	450
AHWF3225K1R8DS	1.8	7.9	20	195	0.80	450
AHWF3225K2R2DS	2.2	7.9	20	175	0.80	450
AHWF3225K4R7DS	4.7	7.9	18	60	1.30	350
AHWF3225K5R6DS	5.6	2.5	18	50	2.00	320

AHWF-DS Series

Part Number	Inductance (uH)	Test Freq. (MHz)	Q min.	SRF (MHz)Min.	RDC (Ω)Max.	I _{rms} (mA)Max.
AHWF3225K100DS	10	2.5	15	30	1.00	300
AHWF3225K150DS	15	2.5	15	22	2.00	225
AHWF3225K180DS	18	2.5	15	22	2.05	215
AHWF3225K220DS	22	2.5	15	20	2.40	210
AHWF3225K330DS	33	2.5	15	15	2.90	160
AHWF3225K470DS	47	2.5	15	10	5.20	140
AHWF3225K560DS	56	2.5	8	8	5.60	125
AHWF3225K680DS	68	1	6	10	13.0	100
AHWF3225K820DS	82	1	6	10	13.0	100
AHWF3225K101DS	100	1	6	10	13.0	100
AHWF3225K121DS	120	1	6	10	13.0	100
AHWF3225K151DS	150	1	10	4	20.0	80
AHWF3225K181DS	180	1	8	3	14.5	70
AHWF3225K201DS	200	1	8	3	30.0	65
AHWF3225K221DS	220	1	8	3	30.0	65
AHWF3225K271DS	270	1	8	2	33.0	60
AHWF3225K331DS	330	1	8	2	35.0	55
AHWF3225K471DS	470	1	8	2	42.0	40
AHWF3225K561DS	560	1	8	2	60.0	10
AHWF3225K621DS	620	1	8	2	85.0	10

External Dimensions (Unit:m/m)



TYPE	METRIC	A	B	C	D	a	b	c	Q'Ty/Reel
AHWF1608-D	0603	1.80Max	1.25Max	1.20Max	0.33Ref	0.64Ref	0.64Ref	1.02Ref	4000
AHWF2012-D	0805	2.40Max	1.73Max	1.52Max	0.44Ref	1.02Ref	0.76Ref	1.78Ref	2000

AHWF-D Series

Part Number	Inductance (uH)	Test Freq. (MHz)	Q min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.
AHWF1608K1R0D	1.0	7.9	12	390	0.41	800
AHWF1608K1R5D	1.5	7.9	12	160	0.52	650
AHWF1608K1R8D	1.8	7.9	12	121	0.56	550
AHWF1608K2R2D	2.2	7.9	12	50	0.50	600
AHWF1608K3R3D	3.3	7.9	12	66	0.91	420
AHWF1608K4R7D	4.7	7.9	12	51	0.97	400
AHWF1608K5R6D	5.6	7.9	12	47	1.43	380
AHWF1608K6R8D	6.8	7.9	12	43	1.95	340
AHWF1608K8R2D	8.2	7.9	12	40	2.18	300
AHWF1608K100D	10	2.5	14	36	2.40	280
AHWF1608K150D	15	2.5	12	29	3.38	200
AHWF1608K220D	22	2.5	12	24	4.69	200
AHWF1608K270D	27	2.5	12	20	6.76	140
AHWF1608K330D	33	2.5	12	10	8.58	100
AHWF1608K470D	47	2.5	10	5	12	100
AHWF2012KR47D	0.47	7.9	14	850	0.10	1400
AHWF2012K1R0D	1.0	7.9	14	208	0.169	1100
AHWF2012K1R5D	1.5	7.9	14	130	0.22	880
AHWF2012K1R8D	1.8	7.9	14	112	0.26	860
AHWF2012K2R2D	2.2	7.9	12	80	0.312	740
AHWF2012K3R3D	3.3	7.9	12	50	0.36	620
AHWF2012K4R7D	4.7	7.9	14	51	0.559	520

AHWF-D Series

Part Number	Inductance (uH)	Test Freq. (MHz)	Q min.	SRF (MHz)Min.	RDC (Ω)Max.	Irms (mA)Max.
AHWF2012K5R6D	5.6	8	12	42	0.65	480
AHWF2012K6R8D	6.8	7.9	14	35	0.88	420
AHWF2012K8R2D	8.2	7.9	13	33	0.94	400
AHWF2012K100D	10	2.5	14	25	1.17	290
AHWF2012K150D	15	2.5	15	28	1.82	300
AHWF2012K180D	18	2.5	15	27	2.01	280
AHWF2012K220D	22	2.5	15	20	2.288	240
AHWF2012K270D	27	2.5	15	17	2.6	220
AHWF2012K330D	33	2.5	15	17	3.055	200
AHWF2012K470D	47	2.5	14	15	4.42	160
AHWF2012K101D	100	1.0	10	5	9.75	100
AHWF2012K111D	110	1.0	10	5	9.75	100