

## AW and AWC TYPE

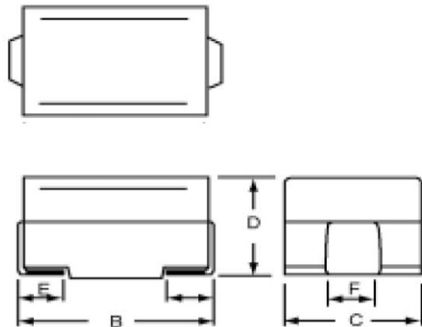
### ●FEATURE

1. Wire wound SMD inductors
2. Highly accurate dimensions and reliable
3. AWC type are low DC resistance, high current for the power line

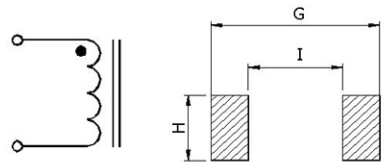
### ●Applications

1. Digital camera or small size LCD panel used
2. Hard Disk drives, and other electronic equipment

### ●Shape and Dimension



### ●Schematics and Land Patterns(mm)



### ●Specification

Dimension in m/m

TYPE B		C	D	E	F	G	I	H
AW252018(1008)	2.50±0.20	2.00±0.20	1.80±0.20	0.45	1.40	3.00	1.40	2.00
AW322522(1210)	3.20±0.30	2.50±0.20	2.20±0.20	0.60	1.10	4.00	2.00	1.60
AW453232(1812)	4.50±0.30	3.20±0.20	3.20±0.20	0.90	1.30	6.00	3.00	2.50
AW565050(2220)	5.60±0.30	5.00±0.30	5.00±0.30	1.00	2.00	8.00	4.00	4.50
AWC322522(1210)	3.20±0.30	2.50±0.20	2.20±0.20	0.60	1.10	4.00	2.00	1.60
AWC453232(1812)	4.50±0.30	3.20±0.20	3.20±0.20	0.90	1.30	6.00	3.00	2.50

Note1. Measurement frequency of Inductance value : at electrical characteristics

Note2. Measurement ambient temperature of L, DCR and IDC : at 25°C

Note3. IDC : This indicates the value of current when the inductances is 10% lower than its initial value at D.C. superimposition or D.C. current when at  $\Delta t=20^{\circ}\text{C}$ , which is lower. ( $T_a=20^{\circ}\text{C}$ )

Note4. Inductance tolerance: J:  $\pm 5\%$ ; K:  $\pm 10\%$ ; M:  $\pm 20\%$

Note5. This specification might be changed without notice due to under developing and improving.

Thank you for your understanding.

P/N L	( $\mu$ H)	TEST FREQ. (MHz)	Q Min	SRF (MHz) Min	RDC ( $\Omega$ )Max	IDC (mA)Max
AW252018-R15K	0.15	25.2	30	550	0.42	480
AW252018-R18K	0.18	25.2	30	500	0.46	460
AW252018-R22K	0.22	25.2	30	450	0.52	430
AW252018-R27K	0.27	25.2	30	425	0.56	420
AW252018-R33K	0.33	25.2	30	400	0.60	400
AW252018-R39K	0.39	25.2	30	375	0.65	375
AW252018-R47K	0.47	25.2	30	350	0.68	350
AW252018-R56K	0.56	25.2	30	300	0.75	325
AW252018-R68K	0.68	25.2	30	270	0.85	300
AW252018-R82K	0.82	25.2	30	250	1.00	260
AW252018-1R0J	1.0	7.96	30	220	1.10	245
AW252018-1R2J	1.2	7.96	30	180	1.20	230
AW252018-1R5J	1.5	7.96	30	135	1.30	220
AW252018-1R8J	1.8	7.96	30	100	1.45	210
AW252018-2R2J	2.2	7.96	30	75	1.55	200
AW252018-2R7J	2.7	7.96	30	55	1.70	195
AW252018-3R3J	3.3	7.96	30	48	1.90	185
AW252018-3R9J	3.9	7.96	30	43	2.10	180
AW252018-4R7J	4.7	7.96	30	40	2.30	175
AW252018-5R6J	5.6	7.96	25	36	2.50	170
AW252018-6R8J	6.8	7.96	25	33	2.70	165
AW252018-8R2J	8.2	7.96	25	30	3.05	160
AW252018-100J	10	2.52	25	27	3.50	155
AW252018-120J	12	2.52	25	23	3.80	150
AW252018-150J	15	2.52	25	20	4.40	140
AW252018-180J	18	2.52	25	18	4.80	130
AW252018-220J	22	2.52	25	17	5.50	125
AW252018-270J	27	2.52	25	16	6.30	115
AW252018-330J	33	2.52	25	15	7.10	110
AW252018-390J	39	2.52	20	14	9.50	90
AW252018-470J	47	2.52	20	13	11.10	80
AW252018-560J	56	2.52	20	12	12.10	75
AW252018-680J	68	2.52	20	11	16.60	70
AW252018-820J	82	2.52	20	10	19.00	65
AW252018-101J	100	0.796	15	9	21.00	60

P/N	L ( $\mu$ H)	TEST FREQ. (MHz)	Q Min	SRF (MHz) Min	RDC ( $\Omega$ )Max	IDC (mA)Max
AW322522-R12K	0.12	25.2	30	500	0.22	450
AW322522-R15K	0.15	25.2	30	450	0.25	450
AW322522-R18K	0.18	25.2	30	400	0.28	450
AW322522-R22K	0.22	25.2	30	350	0.32	450
AW322522-R27K	0.27	25.2	30	320	0.36	450
AW322522-R33K	0.33	25.2	30	300	0.40	450
AW322522-R39K	0.39	25.2	30	250	0.45	450
AW322522-R47K	0.47	25.2	30	220	0.50	450
AW322522-R56K	0.56	25.2	30	180	0.55	450
AW322522-R68K	0.68	25.2	30	160	0.60	450
AW322522-R82K	0.82	25.2	30	140	0.65	450
AW322522-1R0K	1.0	7.96	30	120	0.70	400
AW322522-1R2K	1.2	7.96	30	100	0.75	390
AW322522-1R5K	1.5	7.96	30	85	0.85	370
AW322522-1R8K	1.8	7.96	30	80	0.90	350
AW322522-2R2K	2.2	7.96	30	75	1.00	320
AW322522-2R7K	2.7	7.96	30	70	1.10	290
AW322522-3R3K	3.3	7.96	30	60	1.20	260
AW322522-3R9K	3.9	7.96	30	55	1.30	250
AW322522-4R7K	4.7	7.96	30	50	1.50	220
AW322522-5R6K	5.6	7.96	30	47	1.60	200
AW322522-6R8K	6.8	7.96	30	43	1.80	180
AW322522-8R2K	8.2	7.96	30	40	2.00	170
AW322522-100K	10	2.52	30	36	2.10	150
AW322522-120K	12	2.52	30	33	2.50	140
AW322522-150K	15	2.52	30	28	2.80	130
AW322522-180K	18	2.52	30	25	3.30	120
AW322522-220K	22	2.52	30	23	3.70	110
AW322522-270K	27	2.52	30	18	5.00	80
AW322522-330K	33	2.52	30	17	5.60	70
AW322522-390K	39	2.52	30	16	6.40	65
AW322522-470K	47	2.52	30	15	7.00	60
AW322522-560K	56	2.52	30	13	8.00	55
AW322522-680K	68	2.52	30	12	9.00	50
AW322522-101K	100	0.796	20	10	11.00	40

P/N	L ( $\mu$ H)	TEST FREQ. (MHz)	Q Min	SRF (MHz) Min	RDC ( $\Omega$ )Max	IDC (mA)Max
AW453232-R10K	0.10	25.2	35	300	0.18	800
AW453232-R12K	0.12	25.2	35	280	0.20	770
AW453232-R15K	0.15	25.2	35	250	0.22	730
AW453232-R18K	0.18	25.2	35	220	0.24	700
AW453232-R22K	0.22	25.2	40	200	0.25	665
AW453232-R27K	0.27	25.2	40	180	0.26	635
AW453232-R33K	0.33	25.2	40	165	0.28	605
AW453232-R39K	0.39	25.2	40	150	0.30	575
AW453232-R47K	0.47	25.2	40	145	0.32	545
AW453232-R56K	0.56	25.2	40	140	0.36	520
AW453232-R68K	0.68	25.2	40	135	0.40	500
AW453232-R82K	0.82	25.2	40	130	0.45	475
AW453232-1R0K	1.0	7.96	50	100	0.50	450
AW453232-1R2K	1.2	7.96	50	80	0.55	430
AW453232-1R5K	1.5	7.96	50	70	0.60	410
AW453232-1R8K	1.8	7.96	50	60	0.65	390
AW453232-2R2K	2.2	7.96	50	55	0.70	380
AW453232-2R7K	2.7	7.96	50	50	0.75	370
AW453232-3R3K	3.3	7.96	50	45	0.80	355
AW453232-3R9K	3.9	7.96	50	40	0.90	330
AW453232-4R7K	4.7	7.96	50	35	1.00	315
AW453232-5R6K	5.6	7.96	50	33	1.10	300
AW453232-6R8K	6.8	7.96	50	27	1.20	285
AW453232-8R2K	8.2	7.96	50	25	1.40	270
AW453232-100K	10	2.52	50	20	1.60	250
AW453232-120K	12	2.52	50	18	2.00	225
AW453232-150K	15	2.52	50	17	2.50	200
AW453232-180K	18	2.52	50	15	2.80	190
AW453232-220K	22	2.52	50	13	3.20	180
AW453232-270K	27	2.52	50	12	3.60	170
AW453232-330K	33	2.52	50	11	4.00	160
AW453232-390K	39	2.52	50	10	4.50	150
AW453232-470K	47	2.52	50	10	5.00	140
AW453232-560K	56	2.52	50	9	5.50	135
AW453232-680K	68	2.52	50	9	6.00	130

P/N	L ( $\mu$ H)	TEST FREQ. (MHz)	Q Min	SRF (MHz) Min	RDC ( $\Omega$ )Max	IDC (mA)Max
AW453232-820K	82	2.52	50	8	7.00	120
AW453232-101K	100	0.796	40	8	8.00	110
AW453232-121K	120	0.796	40	6	8.00	110
AW453232-151K	150	0.796	40	5	9.00	105
AW453232-181K	180	0.796	40	5	9.50	102
AW453232-221K	220	0.796	40	4	10.0	100
AW453232-271K	270	0.796	40	4	12.0	92
AW453232-331K	330	0.796	40	3.5	14.0	85
AW453232-391K	390	0.796	40	3.0	18.0	80
AW453232-471K	470	0.796	40	3.0	26.0	62
AW453232-561K	560	0.796	40	3.0	30.0	50
AW453232-681K	680	0.796	40	3.0	30.0	50
AW453232-821K	820	0.796	40	2.5	35.0	30
AW453232-102K	1000	0.252	40	2.5	40.0	30
AW565050-1R0K	1.0	7.96	10	95	0.030	1800
AW565050-1R2K	1.2	7.96	10	70	0.035	1700
AW565050-1R5K	1.5	7.96	10	55	0.04	1600
AW565050-1R8K	1.8	7.96	10	47	0.05	1400
AW565050-2R2K	2.2	7.96	10	42	0.06	1300
AW565050-2R7K	2.7	7.96	10	37	0.07	1200
AW565050-3R3K	3.3	7.96	10	34	0.08	1120
AW565050-3R9K	3.9	7.96	10	32	0.09	1050
AW565050-4R7K	4.7	7.96	10	29	0.11	950
AW565050-5R6K	5.6	7.96	10	26	0.13	880
AW565050-6R8K	6.8	7.96	10	24	0.15	810
AW565050-8R2K	8.2	7.96	10	22	0.18	750
AW565050-100K	10	2.52	10	19	0.21	690
AW565050-120K	12	2.52	10	17	0.25	630
AW565050-150K	15	2.52	10	16	0.30	580
AW565050-180K	18	2.52	10	14	0.36	530
AW565050-220K	22	2.52	10	13	0.43	480
AW565050-270K	27	2.52	10	11.5	0.52	440
AW565050-330K	33	2.52	10	10.5	0.62	400
AW565050-390K	39	2.52	10	9.5	0.72	370
AW565050-470K	47	2.52	10	8.5	0.85	340

P/N	L ( $\mu$ H)	TEST FREQ. (MHz)	Q Min	SRF (MHz) Min	RDC ( $\Omega$ )Max	IDC (mA)Max
AW565050-560K	56	2.52	10	7.8	1.00	310
AW565050-680K	68	2.52	10	7	1.20	290
AW565050-820K	82	2.52	10	6.4	1.40	270
AW565050-101K	100	0.796	20	6	1.60	250
AW565050-151K	150	0.796	20	4.8	2.20	210
AW565050-181K	180	0.796	20	4.4	2.80	190
AW565050-221K	220	0.796	20	3.9	3.40	170
AW565050-271K	270	0.796	20	3.6	4.20	155
AW565050-331K	330	0.796	20	3.2	4.90	140
AW565050-391K	390	0.796	20	2.9	5.80	130
AW565050-471K	470	0.796	20	2.6	7.00	120
AW565050-561K	560	0.796	20	2.4	8.50	110
AW565050-681K	680	0.796	20	2.2	10	100
AW565050-821K	820	0.796	20	2	13	90
AW565050-102K	1000	0.252	20	1.8	15	85
AW565050-122K	1200	0.252	30	1.5	17	75
AW565050-152K	1500	0.252	30	1.4	20	70
AW565050-182K	1800	0.252	30	1.3	30	60
AW565050-222K	2200	0.252	30	1.2	35	55
AW565050-272K	2700	0.252	30	1.1	55	45
AW565050-332K	3300	0.252	30	1	60	40
AW565050-392K	3900	0.252	30	1	70	38
AW565050-472K	4700	0.252	30	0.9	78	36
AW565050-562K	5600	0.252	30	0.8	85	33
AW565050-682K	6800	0.252	30	0.7	110	30
AW565050-822K	8200	0.252	30	0.6	125	28
AW565050-103K	10000	0.0796	20	0.5	150	25

P/N	L ( $\mu$ H)	TEST FREQ. (MHz)	Q Min	SRF (MHz) Min	RDC ( $\Omega$ )Max	IDC (mA)Max
AWC322522-1R0M	1.0	7.96	10	100	0.156	770
AWC322522-1R5M	1.5	7.96	10	80	0.195	580
AWC322522-2R2M	2.2	7.96	10	65	0.260	480
AWC322522-3R3M	3.3	7.96	10	55	0.325	400
AWC322522-4R7M	4.7	7.96	10	45	0.520	320
AWC322522-6R8M	6.8	7.96	10	35	0.650	280
AWC322522-100K	10	2.52	15	28	1.105	220
AWC322522-150K	15	2.52	15	25	1.690	180
AWC322522-220K	22	2.52	15	20	2.600	145
AWC322522-330K	33	2.52	15	15	3.640	115
AWC322522-470K	47	2.52	20	13	5.460	105
AWC322522-680K	68	2.52	20	10	8.450	85
AWC322522-101K	100	0.796	20	8	10.14	75
AWC453232-1R0K	1.0	7.96	10	180	0.11	1050
AWC453232-1R2K	1.2	7.96	10	160	0.12	1000
AWC453232-1R5K	1.5	7.96	10	130	0.15	950
AWC453232-1R8K	1.8	7.96	10	100	0.16	900
AWC453232-2R2K	2.2	7.96	10	80	0.18	850
AWC453232-2R7K	2.7	7.96	10	60	0.20	800
AWC453232-3R3K	3.3	7.96	10	45	0.22	750
AWC453232-3R9K	3.9	7.96	10	40	0.24	700
AWC453232-4R7K	4.7	7.96	10	35	0.27	650
AWC453232-5R6K	5.6	7.96	10	30	0.30	650
AWC453232-6R8K	6.8	7.96	10	28	0.35	600
AWC453232-8R2K	8.2	7.96	10	25	0.40	600
AWC453232-100K	10	2.52	10	22	0.50	550
AWC453232-120K	12	2.52	10	21	0.60	500
AWC453232-150K	15	2.52	10	20	0.70	450
AWC453232-180K	18	2.52	10	19	0.80	400
AWC453232-220K	22	2.52	10	18	0.90	370
AWC453232-270K	27	2.52	10	16	1.20	330
AWC453232-330K	33	2.52	10	14	1.40	300
AWC453232-390K	39	2.52	10	12	1.60	280
AWC453232-470K	47	2.52	10	11.5	1.90	260
AWC453232-560K	56	2.52	10	11	2.20	240

P/N	L ( $\mu$ H)	TEST FREQ. (MHz)	Q Min	SRF (MHz) Min	RDC ( $\Omega$ )Max	IDC (mA)Max
AWC453232-680K	68	2.52	10	10	2.60	220
AWC453232-820K	82	2.52	10	9	3.50	200
AWC453232-101K	100	0.796	20	8	4.00	180
AWC453232-121K	120	0.796	20	7.5	4.50	160
AWC453232-151K	150	0.796	20	7.0	6.50	140
AWC453232-181K	180	0.796	20	6.5	7.50	120
AWC453232-221K	220	0.796	20	5.5	9.00	120
AWC453232-271K	270	0.796	20	5.0	11.0	100
AWC453232-331K	330	0.796	20	4.0	13.0	90
AWC453232-391K	390	0.796	30	3.0	13.5	85
AWC453232-471K	470	0.796	30	3.0	15.0	75
AWC453232-561K	560	0.796	30	3.0	17.0	70
AWC453232-681K	680	0.796	30	2.5	22.8	65