

THROUGH-HOLE POWER INDUCTORS

AIAP-01 SERIES

STANDARD SPECIFICATIONS

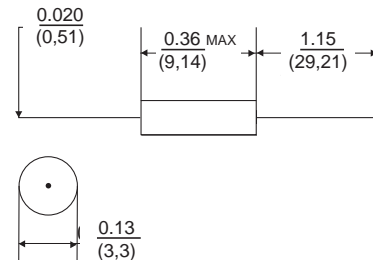
Part Number ²	L ^{1,2} (mH)	DCR W (MAX)	SRF (MIN) (MHz)	Idc ³ (mA) (MAX)
AIAP-01-1R0K	1.0	0.018	190	3300
AIAP-01-1R2K	1.2	0.019	170	3200
AIAP-01-1R5K	1.5	0.020	160	3100
AIAP-01-1R8K	1.8	0.023	150	2900
AIAP-01-2R2K	2.2	0.031	130	2600
AIAP-01-2R7K	2.7	0.033	120	2500
AIAP-01-3R3K	3.3	0.054	110	1900
AIAP-01-3R9K	3.9	0.060	100	1800
AIAP-01-4R7K	4.7	0.068	86	1700
AIAP-01-5R6K	5.6	0.074	64	1600
AIAP-01-6R8K	6.8	0.080	44	1600
AIAP-01-8R2K	8.2	0.087	32	1500
AIAP-01-100K	10	0.095	25	1500
AIAP-01-120K	12	0.11	17	1400
AIAP-01-150K	15	0.15	13	1200
AIAP-01-180K	18	0.16	10	1100
AIAP-01-220K	22	0.19	8.4	1000
AIAP-01-270K	27	0.22	8.0	950
AIAP-01-330K	33	0.24	7.6	910
AIAP-01-390K	39	0.26	7.1	880
AIAP-01-470K	47	0.35	6.0	760
AIAP-01-560K	56	0.47	5.8	650
AIAP-01-680K	68	0.53	4.3	610
AIAP-01-820K	82	0.60	4.1	580
AIAP-01-101K	100	0.67	3.9	550

Part Number ²	L ^{1,2} (mH)	DCR W (MAX)	SRF (MIN) (MHz)	Idc ³ (mA) (MAX)
AIAP-01-121K	120	0.90	3.6	470
AIAP-01-151K	150	1.2	3.2	410
AIAP-01-181K	180	1.4	2.8	380
AIAP-01-221K	220	1.9	2.3	320
AIAP-01-271K	270	2.1	2.1	310
AIAP-01-331K	330	2.4	1.9	290
AIAP-01-391K	390	3.0	1.7	260
AIAP-01-471K	470	3.4	1.4	240
AIAP-01-561K	560	4.7	1.3	210
AIAP-01-681K	680	6.4	1.2	180
AIAP-01-821K	820	7.1	1.1	170
AIAP-01-102K	1000	7.9	1.0	160
AIAP-01-122K	1200	9.0	0.94	150
AIAP-01-152K	1500	12	0.76	130
AIAP-01-182K	1800	14	0.72	120
AIAP-01-222K	2200	19	0.64	100
AIAP-01-272K	2700	25	0.56	90
AIAP-01-332K	3300	29	0.53	83
AIAP-01-392K	3900	34	0.48	77
AIAP-01-472K	4700	37	0.45	74
AIAP-01-562K	6500	50	0.40	63
AIAP-01-682K	6800	58	0.36	59
AIAP-01-822K	8200	68	0.29	54
AIAP-01-103K	10000	75	0.27	52

Notes:

1. Inductance (L) measured @ 100 KHz, 100 mVRMS with 0 DC bias
2. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
3. Current rating at which inductance (L) drops 10%
4. Operating temperature -40°C to +85°C
5. Storage temperature -55°C to +125°C
6. Dimensions: inches / mm; see spec sheet for tolerance limits
7. Marking per EIA 4-band color code
8. Specifications subject to change without notice

PHYSICAL CHARACTERISTICS⁶



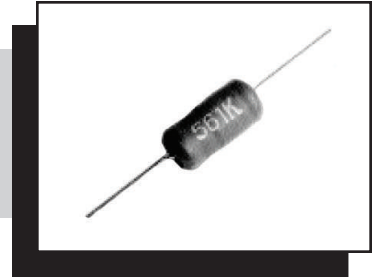
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THROUGH-HOLE POWER INDUCTORS

AIAP-02 SERIES



STANDARD SPECIFICATIONS

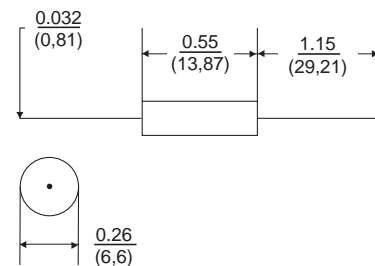
Part Number ²	L ^{1,2} (mH)	DCR W (MAX)	SRF (MIN) (MHz)	Idc ³ (mA) (MAX)
AIAP-02-3R9K	3.9	0.019	7.3	1.28
AIAP-02-4R7K	4.7	0.022	6.3	1.28
AIAP-02-5R6K	5.6	0.024	5.6	1.28
AIAP-02-6R8K	6.8	0.026	5.3	1.28
AIAP-02-8R2K	8.2	0.028	4.5	1.28
AIAP-02-100K	10	0.033	4.1	1.28
AIAP-02-120K	12	0.037	3.6	1.28
AIAP-02-150K	15	0.040	3.3	1.28
AIAP-02-180K	18	0.044	3.0	1.28
AIAP-02-220K	22	0.050	2.7	1.28
AIAP-02-270K	27	0.056	2.5	1.28
AIAP-02-330K	33	0.076	2.2	1.00
AIAP-02-390K	39	0.094	2.0	0.804
AIAP-02-470K	47	0.109	1.8	0.804
AIAP-02-560K	56	0.131	1.7	0.804
AIAP-02-680K	68	0.142	1.5	0.804
AIAP-02-820K	82	0.152	1.4	0.804
AIAP-02-101K	100	0.208	1.2	0.632
AIAP-02-121K	120	0.283	1.1	0.508
AIAP-02-151K	150	0.340	1.0	0.508
AIAP-02-181K	180	0.362	0.95	0.508
AIAP-02-221K	220	0.430	0.86	0.508
AIAP-02-271K	270	0.557	0.77	0.400

Part Number ²	L ^{1,2} (mH)	DCR W (MAX)	SRF (MIN) (MHz)	Idc ³ (mA) (MAX)
AIAP-02-331K	330	0.665	0.70	0.400
AIAP-02-391K	390	0.772	0.64	0.400
AIAP-02-471K	470	1.15	0.59	0.315
AIAP-02-561K	560	1.27	0.54	0.315
AIAP-02-681K	680	1.61	0.49	0.250
AIAP-02-821K	820	1.96	0.44	0.200
AIAP-02-102K	1000	2.30	0.40	0.200
AIAP-02-122K	1200	2.65	0.35	0.200
AIAP-02-152K	1500	3.45	0.33	0.158
AIAP-02-182K	1800	4.03	0.29	0.158
AIAP-02-222K	2200	4.48	0.27	0.158
AIAP-02-272K	2700	5.40	0.24	0.125
AIAP-02-332K	3300	6.56	0.22	0.125
AIAP-02-392K	3900	8.63	0.20	0.100
AIAP-02-472K	4700	9.66	0.18	0.100
AIAP-02-562K	5600	13.9	0.17	0.082
AIAP-02-682K	6800	16.3	0.15	0.082
AIAP-02-822K	8200	20.8	0.14	0.065
AIAP-02-103K	10000	26.4	0.12	0.050
AIAP-02-123K	12000	29.9	0.11	0.050
AIAP-02-153K	15000	42.5	0.108	0.039
AIAP-02-183K	18000	48.3	0.09	0.039

Notes:

1. Inductance (L) measured @ 100 KHz, 100 mV with 0 DC bias
2. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
3. Current rating at which inductance (L) drops 10%
4. Operating temperature -40°C to +85°C
5. Storage temperature -55°C to +125°C
6. Dimensions: inches / mm; see spec sheet for tolerance limits
7. Marking to include 'L' in mH
8. Specifications subject to change without notice

PHYSICAL CHARACTERISTICS⁶



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THROUGH-HOLE POWER INDUCTORS

AIAP-03 SERIES

STANDARD SPECIFICATIONS

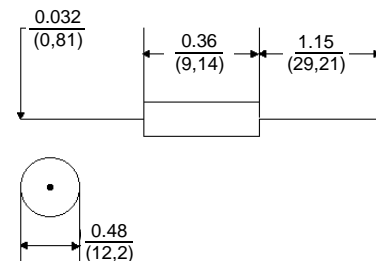
Part Number ²	L ^{1,2} (μH)	DCR Ω (MAX)	SRF (MIN) (MHz)	I _{DC} ³ (mA) (MAX)
AIAP-03-3R9K	3.9	0.007	15.5	4.0
AIAP-03-4R7K	4.7	0.008	13.9	4.0
AIAP-03-5R6K	5.6	0.011	12.6	4.0
AIAP-03-6R8K	6.8	0.011	11.6	4.0
AIAP-03-8R2K	8.2	0.013	9.89	4.0
AIAP-03-100K	10	0.017	8.70	4.0
AIAP-03-120K	12	0.019	8.21	4.0
AIAP-03-150K	15	0.022	7.34	4.0
AIAP-03-180K	18	0.023	6.64	4.0
AIAP-03-220K	22	0.026	6.07	4.0
AIAP-03-270K	27	0.027	5.36	4.0
AIAP-03-330K	33	0.032	4.82	4.0
AIAP-03-390K	39	0.033	4.36	4.0
AIAP-03-470K	47	0.035	3.98	4.0
AIAP-03-560K	56	0.037	3.66	3.2
AIAP-03-680K	68	0.047	3.31	2.5
AIAP-03-820K	82	0.060	3.10	2.0
AIAP-03-101K	100	0.090	2.79	1.6
AIAP-03-121K	120	0.113	2.54	1.6
AIAP-03-151K	150	0.129	2.22	1.6
AIAP-03-181K	180	0.150	1.98	1.6
AIAP-03-221K	220	0.162	1.89	1.6
AIAP-03-271K	270	0.208	1.63	1.6
AIAP-03-331K	330	0.212	1.51	1.6
AIAP-03-391K	390	0.281	1.39	1.6
AIAP-03-471K	470	0.380	1.24	1.2
AIAP-03-561K	560	0.420	1.17	1.0

Part Number ²	L ^{1,2} (μH)	DCR Ω (MAX)	SRF (MIN) (MHz)	I _{DC} ³ (mA) (MAX)
AIAP-03-681K	680	0.548	1.05	1.0
AIAP-03-821K	820	0.655	0.970	0.80
AIAP-03-102K	1000	0.844	0.870	0.80
AIAP-03-122K	1200	1.04	0.790	0.60
AIAP-03-152K	1500	1.18	0.700	0.60
AIAP-03-182K	1800	1.56	0.640	0.60
AIAP-03-222K	2200	2.00	0.580	0.50
AIAP-03-272K	2700	2.06	0.530	0.40
AIAP-03-332K	3300	2.63	0.470	0.40
AIAP-03-392K	3900	2.75	0.430	0.40
AIAP-03-472K	4700	3.19	0.390	0.40
AIAP-03-562K	5600	3.92	0.359	0.315
AIAP-03-682K	6800	5.69	0.322	0.250
AIAP-03-822K	8200	6.32	0.293	0.250
AIAP-03-103K	10000	7.30	0.266	0.250
AIAP-03-123K	12000	9.99	0.257	0.160
AIAP-03-153K	15000	11.2	0.230	0.160
AIAP-03-183K	18000	15.2	0.210	0.130
AIAP-03-223K	22000	16.8	0.190	0.130
AIAP-03-272K	27000	18.6	0.171	0.130
AIAP-03-333K	33000	26.7	0.155	0.100
AIAP-03-393K	39000	29.0	0.143	0.100
AIAP-03-473K	47000	31.8	0.131	0.100
AIAP-03-563K	56000	42.6	0.119	0.083
AIAP-03-683K	68000	46.9	0.108	0.083
AIAP-03-823K	82000	64.9	0.098	0.067
AIAP-03-104K	100000	71.7	0.099	0.067

Notes:

1. Inductance (L) measured @ 100 KHz, 0.1mV_{RMS} with 0 DC bias and 1 KHz, 0.1mV_{RMS} for 2200μH and up
2. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
3. Current rating at which inductance (L) drops 10%
4. Operating temperature -40°C to +105°C
5. Storage temperature -55°C to +125°C
6. Dimensions: inches / mm; see spec sheet for tolerance limits
7. Marking per EIA 4-band color code
8. Specifications subject to change without notice

PHYSICAL CHARACTERISTICS⁵



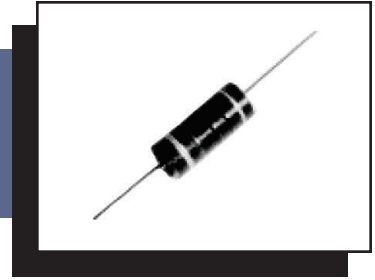
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AIAM-01 SERIES



STANDARD SPECIFICATIONS

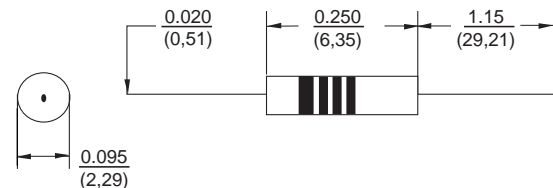
Part Number ²	L ^{1,2} (mH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR W (MAX)	Idc ³ (mA) (MAX)
AIAM-01-R022K	.022	50	50	900	.025	2400
AIAM-01-R027K	.027	40	25	875	.033	2200
AIAM-01-R033K	.033	40	25	850	.035	2000
AIAM-01-R039K	.039	40	25	825	.04	1900
AIAM-01-R047K	.047	40	25	800	.045	1800
AIAM-01-R056K	.056	40	25	775	.05	1700
AIAM-01-R068K	.068	40	25	750	.06	1500
AIAM-01-R082K	.082	40	25	725	.07	1400
AIAM-01-R10K	.10	40	25	680	.08	1350
AIAM-01-R12K	.12	40	25	640	.09	1270
AIAM-01-R15K	.15	38	25	600	.10	1200
AIAM-01-R18K	.18	35	25	550	.12	1105
AIAM-01-R22K	.22	33	25	510	.14	1025
AIAM-01-R27K	.27	33	25	430	.16	960
AIAM-01-R33K	.33	30	25	410	.22	815
AIAM-01-R39K	.39	30	25	365	.30	700
AIAM-01-R47K	.47	30	25	330	.35	650
AIAM-01-R56K	.56	30	25	300	.50	545
AIAM-01-R68K	.68	28	25	275	.60	495
AIAM-01-R82K	.82	28	25	250	.85	415
AIAM-01-1R0K	1.0	25	25	230	1.0	385
AIAM-01-1R2K	1.2	25	7.9	150	.18	590
AIAM-01-1R5K	1.5	28	7.9	140	.22	535
AIAM-01-1R8K	1.8	30	7.9	125	.30	455
AIAM-01-2R2K	2.2	30	7.9	115	.40	395
AIAM-01-2R7K	2.7	37	7.9	100	.55	355
AIAM-01-3R3K	3.3	45	7.9	90	.85	270
AIAM-01-3R9K	3.9	45	7.9	80	1.0	250
AIAM-01-4R7K	4.7	45	7.9	75	1.2	230

Part Number ²	L ^{1,2} (mH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR W (MAX)	Idc ³ (mA) (MAX)
AIAM-01-5R6K	5.6	50	7.9	65	1.8	185
AIAM-01-6R8K	6.8	50	7.9	60	2.0	175
AIAM-01-8R2K	8.2	55	7.9	55	2.7	155
AIAM-01-100K	10	55	7.9	50	3.7	130
AIAM-01-120K	12	45	2.5	40	2.7	155
AIAM-01-150K	15	40	2.5	35	2.8	150
AIAM-01-180K	18	50	2.5	30	3.1	145
AIAM-01-220K	22	50	2.5	25	3.3	140
AIAM-01-270K	27	50	2.5	20	3.5	135
AIAM-01-330K	33	45	2.5	24	3.4	130
AIAM-01-390K	39	45	2.5	22	3.6	125
AIAM-01-470K	47	45	2.5	20	4.5	110
AIAM-01-560K	56	45	2.5	18	5.7	100
AIAM-01-680K	68	50	2.5	15	6.7	92
AIAM-01-820K	82	50	2.5	14	7.3	88
AIAM-01-101K	100	50	2.5	13	8.0	84
AIAM-01-121K	120	30	.79	12	13	66
AIAM-01-151K	150	30	.79	11	15	61
AIAM-01-181K	180	30	.79	10	17	57
AIAM-01-221K	220	30	.79	9.0	21	52
AIAM-01-271K	270	30	.79	8.0	25	47
AIAM-01-331K	330	30	.79	7.0	28	45
AIAM-01-391K	390	30	.79	6.5	35	40
AIAM-01-471K	470	30	.79	6.0	42	36
AIAM-01-561K	560	30	.79	5.0	46	35
AIAM-01-681K	680	30	.79	4.0	60	30
AIAM-01-821K	820	30	.79	3.8	65	29
AIAM-01-102K	1000	30	.79	3.4	72	28

Notes:

1. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
2. Letter suffix indicates standard tolerance
3. Current rating at which inductance (L) drops 10%
4. Operating temperature -55°C to +105°C
5. Storage temperature -55°C to +85°C
6. Dimensions: inches / mm; see spec sheet for tolerance limits
7. Marking per EIA 4-band color code
8. Specifications subject to change without notice

PHYSICAL CHARACTERISTICS⁶



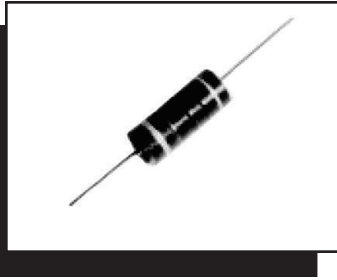
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AIAM-02 SERIES



STANDARD SPECIFICATIONS

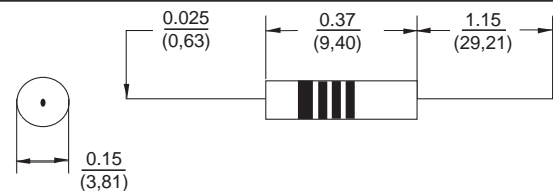
Part Number ²	L ^{1,2} (mH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR W (MAX)	Idc ³ (mA) (MAX)
AIAM-02-R15M	0.15	50	25	525	0.03	2740
AIAM-02-R22M	0.22	50	25	450	.055	2080
AIAM-02-R33M	0.33	45	25	360	0.09	1580
AIAM-02-R47M	0.47	45	25	310	0.12	1370
AIAM-02-R56K	0.56	50	25	280	.135	1290
AIAM-02-R68K	0.68	50	25	250	0.15	1220
AIAM-02-R82K	0.82	50	25	250	0.22	1020
AIAM-02-1R0K	1.0	50	25	200	0.29	880
AIAM-02-1R2K	1.2	33	7.9	180	0.42	730
AIAM-02-1R5K	1.5	33	7.9	160	0.23	670
AIAM-02-1R8K	1.8	33	7.9	150	0.65	590
AIAM-02-2R2K	2.2	33	7.9	135	0.95	485
AIAM-02-2R7K	2.7	33	7.9	120	1.20	430
AIAM-02-3R3K	3.3	33	7.9	110	2.00	335
AIAM-02-3R9K	3.9	33	7.9	100	2.30	310
AIAM-02-4R7K	4.7	33	7.9	90	2.60	294
AIAM-02-5R6K	5.6	45	7.9	55	0.32	565
AIAM-02-6R8K	6.8	50	7.9	55	0.50	450
AIAM-02-8R2K	8.2	50	7.9	50	0.60	410
AIAM-02-100K	10	55	7.9	45	0.90	335
AIAM-02-120K	12	65	2.5	42	1.10	3.5
AIAM-02-150K	15	65	2.5	40	1.40	271
AIAM-02-180K	18	75	2.5	34	2.25	213
AIAM-02-220K	22	75	2.5	30	2.50	202
AIAM-02-270K	27	60	2.5	25	2.60	202
AIAM-02-330K	33	65	2.5	19	3.00	185
AIAM-02-360J	36	60	2.5	15.5	2.50	180
AIAM-02-390J	39	60	2.5	14.5	2.60	176
AIAM-02-430J	43	60	2.5	13.7	2.70	172
AIAM-02-470J	47	55	2.5	13	2.75	170
AIAM-02-510J	51	55	2.5	12.7	2.85	167

Part Number ²	L ^{1,2} (mH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR W (MAX)	Idc ³ (mA) (MAX)
AIAM-02-560J	56	55	2.5	12	3.00	164
AIAM-02-620J	62	55	2.5	11.5	3.15	160
AIAM-02-680J	68	55	2.5	11	3.30	156
AIAM-02-750J	75	55	2.5	10.5	3.70	147
AIAM-02-820J	82	50	2.5	10.3	3.90	143
AIAM-02-910J	91	50	2.5	10	4.30	136
AIAM-02-101J	100	50	2.5	9.5	4.50	133
AIAM-02-111J	110	60	0.79	8.9	4.90	128
AIAM-02-121J	120	65	0.79	8.7	5.20	124
AIAM-02-131J	130	65	0.79	8.5	5.45	121
AIAM-02-151J	150	65	0.79	8.0	6.05	114
AIAM-02-161J	160	65	0.79	7.5	6.40	111
AIAM-02-181J	180	65	0.79	7.0	6.75	108
AIAM-02-201J	200	65	0.79	6.5	7.10	106
AIAM-02-221J	220	65	0.79	6.2	7.45	103
AIAM-02-241J	240	65	0.79	5.9	7.80	101
AIAM-02-271J	270	65	0.79	5.7	11.0	129
AIAM-02-301J	300	65	0.79	5.4	11.5	125
AIAM-02-331J	330	65	0.79	5.1	12.0	123
AIAM-02-361J	360	65	0.79	4.8	15.5	108
AIAM-02-391J	390	65	0.79	4.5	16.3	105
AIAM-02-431J	430	65	0.79	4.2	17.1	102
AIAM-02-471J	470	65	0.79	3.9	17.9	100
AIAM-02-511J	510	65	0.79	3.7	18.8	98
AIAM-02-561J	560	65	0.79	3.5	24.7	85
AIAM-02-621J	620	65	0.79	3.3	25.9	83
AIAM-02-681J	680	55	0.79	3.1	27.2	81
AIAM-02-751J	750	55	0.79	2.9	28.6	79
AIAM-02-821J	820	55	0.79	2.7	30.0	77
AIAM-02-911J	910	55	0.79	2.5	31.5	76
AIAM-02-102J	1000	55	0.79	2.3	33.1	74

Notes:

1. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
2. Letter suffix indicates standard tolerance
3. Current rating at which inductance (L) drops 10%
4. Operating temperature -55°C to +85°C
5. Storage temperature -55°C to +125°C
6. Dimensions: inches / mm; see spec sheet for tolerance limits
7. Marking per EIA 4-band color code
8. Specifications subject to change without notice

PHYSICAL CHARACTERISTICS⁶

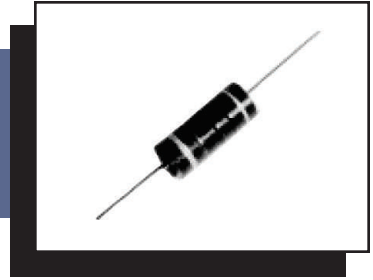


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THROUGH-HOLE MOLDED INDUCTORS

AIAM-03 SERIES



STANDARD SPECIFICATIONS

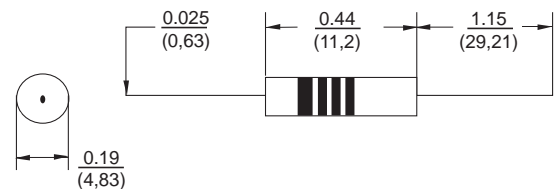
Part Number ²	L ^{1,2} (mH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR W (MAX)	I _{DC} ³ (mA) (MAX)
AIAM-03-R15M	0.15	50	25	510	.300	3050
AIAM-03-R22M	0.22	50	25	415	.350	2800
AIAM-03-R33M	0.33	50	25	305	.650	2000
AIAM-03-R47M	0.47	50	25	300	.850	1700
AIAM-03-R56K	0.56	50	25	270	.125	1450
AIAM-03-R68K	0.68	45	25	250	.150	1300
AIAM-03-R82K	0.82	40	25	210	.205	1100
AIAM-03-1R0K	1.0	40	25	200	.290	930
AIAM-03-1R2K	1.2	30	7.9	180	.400	785
AIAM-03-1R5K	1.5	30	7.9	170	.485	700
AIAM-03-1R8K	1.8	30	7.9	150	.740	550
AIAM-03-2R2K	2.2	30	7.9	140	.970	505
AIAM-03-2R7K	2.7	30	7.9	120	1.20	460
AIAM-03-3R3K	3.3	30	7.9	70	1.40	990
AIAM-03-3R9K	3.9	30	7.9	65	.155	870
AIAM-03-4R7K	4.7	30	7.9	60	.210	745
AIAM-03-5R6K	5.6	30	7.9	50	.280	645
AIAM-03-6R8K	6.8	30	7.9	50	.375	560
AIAM-03-8R2K	8.2	60	2.5	48	.440	540
AIAM-03-100K	10	30	7.9	42	.605	440
AIAM-03-120K	12	50	2.5	36	1.05	370
AIAM-03-150K	15	60	2.5	30	1.20	310
AIAM-03-180K	18	60	2.5	30	1.95	255
AIAM-03-220K	22	60	2.5	24	2.20	240
AIAM-03-270K	27	65	2.5	22	2.75	205
AIAM-03-330K	33	65	2.5	18	2.30	300

Part Number ²	L ^{1,2} (mH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR W (MAX)	I _{DC} ³ (mA) (MAX)
AIAM-03-390J	39	55	2.5	165	2.50	285
AIAM-03-470J	47	55	2.5	14	3.40	245
AIAM-03-560J	56	55	2.5	14	4.10	225
AIAM-03-680J	68	45	2.5	11	4.20	220
AIAM-03-820J	82	55	2.5	9.3 ⁴	4.40	215
AIAM-03-101J	100	45	0.79	8.5	4.90	205
AIAM-03-121J	120	60	0.79	7.3	5.40	195
AIAM-03-151J	150	60	0.79	6.2	6.20	180
AIAM-03-181J	180	60	0.79	5.7	7.10	170
AIAM-03-221J	220	60	0.79	5.2	7.90	160
AIAM-03-271J	270	65	0.79	5.6	8.20	110
AIAM-03-301J	300	65	0.79	5.3	8.70	107
AIAM-03-331J	330	65	0.79	5.0	9.10	105
AIAM-03-361J	360	65	0.79	4.7	9.60	102
AIAM-03-391J	390	65	0.79	4.5	10.0	100
AIAM-03-431J	430	65	0.79	4.3	10.6	97
AIAM-03-471J	470	65	0.79	4.0	11.0	95
AIAM-03-511J	510	65	0.79	3.8	11.6	93
AIAM-03-561J	560	65	0.79	3.8	12.3	91
AIAM-03-621J	620	60	0.79	3.5	13.0	88
AIAM-03-681J	680	60	0.79	3.4	13.7	85
AIAM-03-751J	750	60	0.79	3.3	14.4	83
AIAM-03-821J	820	60	0.79	3.1	15.1	81
AIAM-03-911J	910	60	0.79	2.9	15.8	79
AIAM-03-102J	1000	60	0.79	2.8	16.5	78

Notes:

1. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
2. Letter suffix indicates standard tolerance
3. Current rating at which inductance (L) drops 10%
4. Operating temperature -55°C to +85°C
5. Storage temperature -55°C to +125°C
6. Dimensions: inches / mm; see spec sheet for tolerance limits
7. Marking per EIA 4-band color code
8. Specifications subject to change without notice

PHYSICAL CHARACTERISTICS⁶



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THROUGH-HOLE MOLDED SHIELDED INDUCTORS

AIAS-01 SERIES

STANDARD SPECIFICATIONS

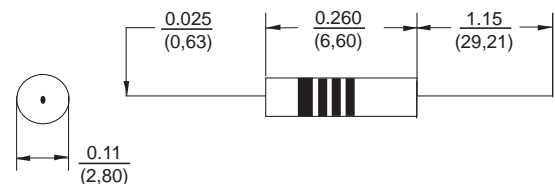
Part Number ²	L ^{1,2} (mH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR W (MAX)	I _{DC} ³ (mA) (MAX)
AIAS-01-R10K	0.10	39	25	400	0.071	1580
AIAS-01-R12K	0.12	36	25	400	0.087	1360
AIAS-01-R15K	0.15	35	25	400	0.109	1280
AIAS-01-R18K	0.18	35	25	400	0.145	1110
AIAS-01-R22K	0.22	35	25	400	0.165	1040
AIAS-01-R27K	0.27	33	25	400	0.192	965
AIAS-01-R33K	0.33	33	25	370	0.228	885
AIAS-01-R39K	0.39	32	25	348	0.259	830
AIAS-01-R47K	0.47	33	25	312	0.348	717
AIAS-01-R56K	0.56	30	25	285	0.417	655
AIAS-01-R68K	0.68	30	25	262	0.580	555
AIAS-01-R82K	0.82	33	25	188	0.132	1160
AIAS-01-1R0K	1.0	35	25	166	0.169	1330
AIAS-01-1R2K	1.2	29	7.9	149	0.184	985
AIAS-01-1R5K	1.5	29	7.9	136	0.260	825
AIAS-01-1R8K	1.8	29	7.9	118	0.360	705
AIAS-01-2R2K	2.2	28	7.9	110	0.410	664
AIAS-01-2R7K	2.7	32	7.9	94	0.550	577
AIAS-01-3R3K	3.3	32	7.9	86	0.620	540
AIAS-01-3R9K	3.9	38	7.9	85	0.790	475
AIAS-01-4R7K	4.7	38	7.9	79	0.910	445
AIAS-01-5R6K	5.6	40	7.9	72	1.15	395
AIAS-01-6R8K	6.8	46	7.9	65	1.73	320
AIAS-01-8R2K	8.2	45	7.9	59	1.96	302
AIAS-01-100K	10	45	7.9	53	2.30	280

Part Number ²	L ^{1,2} (mH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR W (MAX)	I _{DC} ³ (mA) (MAX)
AIAS-01-120K	12	40	2.5	60	0.55	570
AIAS-01-150K	15	45	2.5	53	0.71	500
AIAS-01-180K	18	45	2.5	45.8	1.00	423
AIAS-01-220K	22	45	2.5	42.2	1.09	404
AIAS-01-270K	27	48	2.5	31.0	1.35	364
AIAS-01-330K	33	54	2.5	26.0	1.90	305
AIAS-01-390K	39	54	2.5	24.2	2.10	293
AIAS-01-470K	47	54	2.5	22.0	2.40	271
AIAS-01-560K	56	60	2.5	21.2	2.90	248
AIAS-01-680K	68	55	2.5	19.9	3.20	237
AIAS-01-820K	82	57	2.5	16.8	3.70	219
AIAS-01-101K	100	60	2.5	13.2	4.60	198
AIAS-01-121K	120	58	0.79	11.0	5.20	184
AIAS-01-151K	150	60	0.79	9.1	5.90	173
AIAS-01-181K	180	60	0.79	7.4	7.40	156
AIAS-01-221K	220	60	0.79	7.2	8.50	145
AIAS-01-271K	270	60	0.79	6.8	10.0	133
AIAS-01-331K	330	60	0.79	5.5	13.4	115
AIAS-01-391K	390	60	0.79	5.1	15.0	109
AIAS-01-471K	470	60	0.79	5.0	21.0	92
AIAS-01-561K	560	60	0.79	4.9	23.0	88
AIAS-01-681K	680	60	0.79	4.6	26.0	82
AIAS-01-821K	820	60	0.79	4.2	34.0	72
AIAS-01-102K	1000	60	0.79	4.0	39.0	67

Notes:

1. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
2. Letter suffix indicates standard tolerance
3. Current rating at which inductance (L) drops 10%
4. Operating temperature -55°C to +85°C
5. Storage temperature -55°C to +125°C
6. Dimensions: inches / mm; see spec sheet for tolerance limits
7. Marking per EIA 4-band color code
8. Specifications subject to change without notice

PHYSICAL CHARACTERISTICS⁶

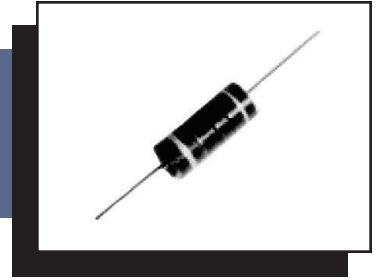


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THROUGH-HOLE MOLDED SHIELDED INDUCTORS

AIAS-02 SERIES



STANDARD SPECIFICATIONS

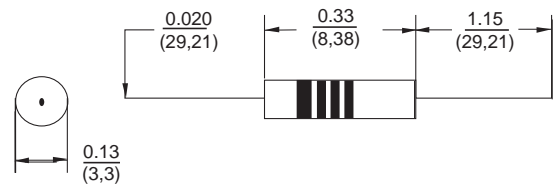
Part Number ²	L ^{1,2} (mH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR W (MAX)	Idc ³ (mA) (MAX)
AIAS-02-R12K	0.12	42	25	500	0.126	1630
AIAS-02-R15K	0.15	42	25	500	0.138	1550
AIAS-02-R18K	0.18	42	25	336	0.165	1420
AIAS-02-R22K	0.22	42	25	331	0.198	1330
AIAS-02-R27K	0.27	42	25	298	0.220	1230
AIAS-02-R33K	0.33	42	25	288	0.258	1140
AIAS-02-R39K	0.39	42	25	271	0.292	1060
AIAS-02-R47K	0.47	41	25	247	0.360	960
AIAS-02-R56K	0.56	39	25	236	0.397	915
AIAS-02-R68K	0.68	36	25	216	0.472	840
AIAS-02-R82K	0.82	35	25	200	0.638	720
AIAS-02-1R0K	1.0	42	25	136	0.208	1260
AIAS-02-1R2K	1.2	38	7.9	120	0.225	1210
AIAS-02-1R5K	1.5	38	7.9	111	0.265	1120
AIAS-02-1R8K	1.8	38	7.9	103	0.285	1080
AIAS-02-2R2K	2.2	36	7.9	94.0	0.330	1000
AIAS-02-2R7K	2.7	38	7.9	84.8	0.381	935
AIAS-02-3R3K	3.3	38	7.9	78.4	0.432	875
AIAS-02-3R9K	3.9	40	7.9	72.8	0.576	755
AIAS-02-4R7K	4.7	42	7.9	66.4	0.787	650
AIAS-02-5R6K	5.6	42	7.9	61.6	1.04	565
AIAS-02-6R8K	6.8	45	7.9	54.6	1.40	485
AIAS-02-8R2K	8.2	47	7.9	49.6	1.68	440
AIAS-02-100K	10	51	7.9	44.0	2.58	355

Part Number ²	L ^{1,2} (mH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR W (MAX)	Idc ³ (mA) (MAX)
AIAS-02-120K	12	51	2.5	39.2	3.65	300
AIAS-02-150K	15	45	2.5	44.0	.862	620
AIAS-02-180K	18	43	2.5	40.0	1.02	570
AIAS-02-220K	22	42	2.5	36.0	1.12	545
AIAS-02-270K	27	37	2.5	32.8	1.28	510
AIAS-02-330K	33	46	2.5	29.6	1.70	440
AIAS-02-390K	39	38	2.5	26.4	1.99	405
AIAS-02-470K	47	42	2.5	23.2	2.41	370
AIAS-02-560K	56	41	2.5	21.6	2.85	340
AIAS-02-680K	68	46	2.5	18.4	3.21	320
AIAS-02-820K	82	46	2.5	16.8	3.57	305
AIAS-02-101K	100	43	2.5	15.2	4.10	280
AIAS-02-121K	120	50	0.79	14.4	5.97	235
AIAS-02-151K	150	49	0.79	12.0	7.05	215
AIAS-02-181K	180	56	0.79	11.2	8.12	200
AIAS-02-221K	220	53	0.79	9.6	14.8	150
AIAS-02-271K	270	57	0.79	9.2	16.8	140
AIAS-02-331K	330	57	0.79	8.4	18.6	130
AIAS-02-391K	390	57	0.79	8.0	21.1	120
AIAS-02-471K	470	50	0.79	6.8	32.2	100
AIAS-02-561K	560	50	0.79	6.0	36.4	95
AIAS-02-681K	680	56	0.79	5.6	41.1	90
AIAS-02-821K	820	49	0.79	5.2	45.0	85
AIAS-02-102K	1000	49	0.79	4.8	52.0	80

Notes:

1. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
2. Letter suffix indicates standard tolerance
3. Current rating at which inductance (L) drops 10%
4. Operating temperature -55°C to +85°C
5. Storage temperature -55°C to +125°C
6. Dimensions: inches / mm; see spec sheet for tolerance limits
7. Marking per EIA 4-band color code
8. Specifications subject to change without notice

PHYSICAL CHARACTERISTICS⁶



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THROUGH-HOLE MOLDED SHIELDED INDUCTORS

AIAS-03 SERIES

STANDARD SPECIFICATIONS

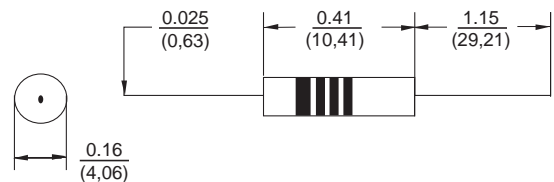
Part Number ²	L ^{1,2} (mH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR W (MAX)	Idc ³ (mA) (MAX)
AIAS-03-R10K	0.10	50	25	250	0.025	2900
AIAS-03-R12K	0.12	51	25	250	0.034	2800
AIAS-03-R15K	0.15	51	25	250	0.037	2750
AIAS-03-R18K	0.18	50	25	250	0.050	2200
AIAS-03-R22K	0.22	49	25	250	0.067	1700
AIAS-03-R27K	0.27	47	25	250	0.110	1500
AIAS-03-R33K	0.33	46	25	250	0.13	1300
AIAS-03-R39K	0.39	44	25	250	0.18	110
AIAS-03-R47K	0.47	44	25	235	0.25	1000
AIAS-03-R56K	0.56	43	25	210	0.33	900
AIAS-03-R68K	0.68	42	25	190	0.45	750
AIAS-03-R82K	0.82	40	25	180	0.59	600
AIAS-03-1R0K	1.0	47	25	140	0.07	1900
AIAS-03-1R2K	1.2	46	7.9	130	0.09	1600
AIAS-03-1R5K	1.5	45	7.9	115	0.12	1300
AIAS-03-1R8K	1.8	43	7.9	105	0.14	1200
AIAS-03-2R2K	2.2	45	7.9	100	0.19	1100
AIAS-03-2R7K	2.7	46	7.9	92	0.28	950
AIAS-03-3R3K	3.3	44	7.9	85	0.35	800
AIAS-03-3R9K	3.9	44	7.9	75	0.40	750
AIAS-03-4R7K	4.7	44	7.9	70	0.55	650
AIAS-03-5R6K	5.6	47	7.9	65	0.72	550
AIAS-03-6R8K	6.8	50	7.9	55	1.02	500
AIAS-03-8R2K	8.2	50	7.9	50	1.32	475
AIAS-03-100K	10	49	7.9	46	1.62	450
AIAS-03-120K	12	55	2.5	44	1.00	400
AIAS-03-150K	15	45	2.5	49	0.80	620
AIAS-03-180K	18	45	2.5	45	0.89	610
AIAS-03-220K	22	46	2.5	40	0.96	600
AIAS-03-270K	27	49	2.5	38	1.19	500
AIAS-03-330K	33	45	2.5	34	1.37	490

Part Number ²	L ^{1,2} (mH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR W (MAX)	Idc ³ (mA) (MAX)
AIAS-03-390K	39	53	2.5	29	1.93	410
AIAS-03-470K	47	52	2.5	27	2.11	400
AIAS-03-560K	56	49	2.5	25	2.23	380
AIAS-03-680K	68	51	2.5	21	2.70	370
AIAS-03-820K	82	45	2.5	11	2.44	360
AIAS-03-101K	100	45	2.5	10	3.12	325
AIAS-03-121K	120	57	0.79	9.7	3.60	290
AIAS-03-151K	150	56	0.79	8.5	4.10	275
AIAS-03-181K	180	60	0.79	8.0	4.40	260
AIAS-03-221K	220	58	0.79	7.5	5.00	250
AIAS-03-271K	270	60	0.79	7.0	5.80	240
AIAS-03-331K	330	54	0.79	6.5	6.40	225
AIAS-03-391K	390	67	0.79	6.2	7.40	200
AIAS-03-471K	470	60	0.79	5.7	9.50	180
AIAS-03-561K	560	60	0.79	4.7	10.5	174
AIAS-03-681K	680	60	0.79	4.5	11.8	168
AIAS-03-821K	820	57	0.79	4.2	12.0	152
AIAS-03-102K	1000	65	0.79	3.8	17.5	135
AIAS-03-122K	1200	45	0.25	1.5	22.1	115
AIAS-03-152K	1500	49	0.25	1.2	26.5	110
AIAS-03-182K	1800	47	0.25	1.0	29.9	105
AIAS-03-222K	2200	50	0.25	0.97	33.8	99
AIAS-03-272K	2700	47	0.25	0.92	47.3	83
AIAS-03-332K	3300	43	0.25	0.84	53.0	80
AIAS-03-392K	3900	43	0.25	0.80	73.8	67
AIAS-03-472K	4700	44	0.25	0.74	81.6	63
AIAS-03-562K	5600	45	0.25	0.73	98.9	56
AIAS-03-682K	6800	43	0.25	0.66	111	54
AIAS-03-822K	8200	42	0.25	0.54	119	52
AIAS-03-103K	10000	39	0.25	0.47	137	49

Notes:

1. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
2. Letter suffix indicates standard tolerance
3. Current rating at which inductance (L) drops 10%
4. Operating temperature -55°C to +85°C
5. Storage temperature -55°C to +125°C
6. Dimensions: inches / mm; see spec sheet for tolerance limits
7. Marking per EIA 4-band color code
8. Specifications subject to change without notice

PHYSICAL CHARACTERISTICS⁶



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 CERTIFIED

THROUGH-HOLE MOLDED SHIELDED INDUCTORS

AIAS-04 SERIES



STANDARD SPECIFICATIONS

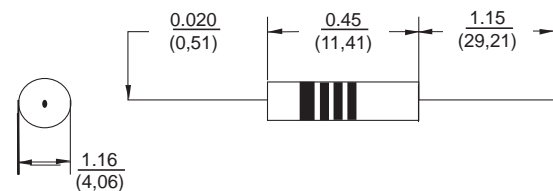
Part Number ²	L ^{1,2} (mH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR W (MAX)	I _{DC} ³ (mA) (MAX)
AIAS-04-121K	120	65	0.79	11	2.45	311
AIAS-04-151K	150	65	0.79	10	2.79	294
AIAS-04-181K	180	65	0.79	10	3.08	277
AIAS-04-221K	220	65	0.79	9.4	3.48	251
AIAS-04-271K	270	65	0.79	8.0	4.55	231
AIAS-04-331K	330	65	0.79	7.3	5.10	215
AIAS-04-391K	390	65	0.79	6.9	5.62	205
AIAS-04-471K	470	70	0.79	6.5	6.45	192
AIAS-04-561K	560	70	0.79	6.0	8.00	174
AIAS-04-681K	680	75	0.79	5.6	8.85	163
AIAS-04-821K	820	70	0.79	4.8	10.4	151
AIAS-04-102K	1000	65	0.79	4.5	12.1	139
AIAS-04-122K	1200	70	0.25	2.6	15.1	125
AIAS-04-152K	1500	70	0.25	2.5	16.8	119
AIAS-04-182K	1800	70	0.25	2.3	19.1	111
AIAS-04-222K	2200	70	0.25	2.2	22.0	103
AIAS-04-272K	2700	70	0.25	2.1	25.1	97
AIAS-04-332K	3300	70	0.25	2.0	33.3	85

Part Number ²	L ^{1,2} (mH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR W (MAX)	I _{DC} ³ (mA) (MAX)
AIAS-04-392K	3900	70	0.25	1.8	36.8	80
AIAS-04-472K	4700	70	0.25	1.7	51.2	68
AIAS-04-652K	6500	70	0.25	1.6	54.6	66
AIAS-04-682K	6800	70	0.25	1.5	62.0	62
AIAS-04-822K	8200	70	0.25	1.4	86.6	52
AIAS-04-103K	10000	70	0.25	1.3	93.1	50
AIAS-04-123K	12000	50	0.25	0.88	84.0	53
AIAS-04-153K	15000	50	0.079	0.78	97.0	49
AIAS-04-183K	18000	50	0.079	0.72	104	48
AIAS-04-223K	22000	50	0.079	0.57	145	40
AIAS-04-273K	27000	50	0.079	0.46	195	34
AIAS-04-333K	33000	50	0.079	0.42	222	32
AIAS-04-393K	39000	50	0.079	0.42	242	31
AIAS-04-473K	47000	50	0.079	0.37	317	27
AIAS-04-563K	56000	50	0.079	0.36	362	25
AIAS-04-683K	68000	50	0.079	0.35	410	24
AIAS-04-823K	82000	50	0.079	0.34	440	23
AIAS-04-104K	100000	50	0.079	0.32	484	22

Notes:

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