

WIRE WOUND MOLDED CHIP INDUCTORS

AIMS-1210 and -1210H SERIES



STANDARD SPECIFICATIONS

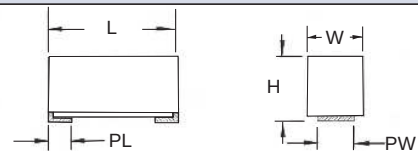
Part Number ^{2,6}	L ¹ (mH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR W (MAX)	Idc ³ (mA) (MAX)
AIMS-1210-R12M	0.12	30	25.2	500	0.22	450
AIMS-1210-R15M	0.15	30	25.2	450	0.25	450
AIMS-1210-R18M	0.18	30	25.2	400	0.28	450
AIMS-1210-R22M	0.22	30	25.2	350	0.32	450
AIMS-1210-R27M	0.27	30	25.2	320	0.36	450
AIMS-1210-R33M	0.33	30	25.2	300	0.4	450
AIMS-1210-R39M	0.39	30	25.2	250	0.45	450
AIMS-1210-R47M	0.47	30	25.2	220	0.5	450
AIMS-1210-R56M	0.56	30	25.2	180	0.55	450
AIMS-1210-R68M	0.68	30	25.2	160	0.6	450
AIMS-1210-R82M	0.82	30	25.2	140	0.65	450
AIMS-1210H-1R0M	1.0	10	7.96	100	0.15	850
AIMS-1210-1R0K	1.0	30	7.96	120	0.7	400
AIMS-1210-1R2K	1.2	30	7.96	100	0.75	390
AIMS-1210-1R5K	1.5	30	7.96	85	0.85	370
AIMS-1210H-1R5M	1.5	10	7.96	80	0.18	700
AIMS-1210-1R8K	1.8	30	7.96	80	0.9	350
AIMS-1210-2R2K	2.2	30	7.96	75	1	320
AIMS-1210H-2R2M	2.2	10	7.96	68	0.23	600
AIMS-1210-2R7K	2.7	30	7.96	70	1.1	290
AIMS-1210-3R3K	3.3	30	7.96	60	1.2	270
AIMS-1210H-3R3M	3.3	10	7.96	54	0.28	500
AIMS-1210-3R9K	3.9	30	7.96	55	1.30	250
AIMS-1210-4R7K	4.7	30	7.96	50	1.50	220
AIMS-1210H-4R7M	4.7	15	7.96	46	0.34	430
AIMS-1210-5R6K	5.6	30	7.96	47	1.60	200
AIMS-1210-6R8K	6.8	30	7.96	43	1.80	180
AIMS-1210H-6R8M	6.8	15	7.96	38	0.42	360
AIMS-1210-8R2K	8.2	30	7.96	40	2.00	170
AIMS-1210-100K	10	30	2.52	36	2.1	150

Part Number ^{2,6}	L ¹ (mH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR W (MAX)	Idc ³ (mA) (MAX)
AIMS-1210H-100K	10	15	2.52	30	0.5	300
AIMS-1210-120K	12	30	2.52	33	2.5	140
AIMS-1210-150K	15	30	2.52	30	2.8	130
AIMS-1210H-150K	15	15	2.52	26	0.74	250
AIMS-1210-180K	18	30	2.52	27	3.3	120
AIMS-1210-220K	22	30	2.52	25	3.7	110
AIMS-1210H-220K	22	15	2.52	21	1.15	210
AIMS-1210-270K	27	30	2.52	20	5	80
AIMS-1210-330K	33	30	2.52	17	5.6	70
AIMS-1210H-330K	33	15	2.52	21	1.15	170
AIMS-1210-390K	39	30	2.52	16	6.4	65
AIMS-1210-470K	47	30	2.52	15	7	60
AIMS-1210H-470K	47	15	2.52	14	2.25	150
AIMS-1210-560K	56	30	2.52	13	8	55
AIMS-1210-680K	68	30	2.52	12	9	50
AIMS-1210H-680K	68	15	2.52	12	3.7	120
AIMS-1210-820K	82	30	2.52	11	10	45
AIMS-1210-101K	100	20	0.796	10	10	40
AIMS-1210H-101K	100	15	0.796	10	5.0	100
AIMS-1210-121K	120	20	0.796	10	11	70
AIMS-1210-151K	150	20	0.796	8	15	65
AIMS-1210H-151K	150	20	0.796	8	8.0	85
AIMS-1210-181K	180	20	0.796	7	17	60
AIMS-1210-221K	220	20	0.796	7	21	50
AIMS-1210H-221K	220	20	0.796	7	11	70
AIMS-1210-271K	270	20	0.796	6	28	45
AIMS-1210-331K	330	20	0.796	5	34	40
AIMS-1210H-331K	330	20	0.796	6	16	60
AIMS-1210-391K	390	20	0.796	5	40	35
AIMS-1210-471K	470	20	0.796	4	42	25

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 -40°C to 125°C
5. Dimensions: inches / mm; see spec sheet for tolerance limits
6. Includes product with 'H' suffix
7. Specifications subject to change without notice

PHYSICAL CHARACTERISTICS



	Length ⁵ (L)	Width ⁵ (W)	Height ⁵ (H)	Pad Width ⁵ (BW)	Pad Length ⁵ (PL)
AIMS-1210 ⁶	0.125±.008 (3,2±0,2)	0.10±.008 (2,5±0,2)	0.086±.008 (2,2±0,2)	0.075±.004 (1,9±0,1)	0.024±.004 (0,62±0,1)

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ABRACON

CORPORATION



WIRE-WOUND CHIP INDUCTORS

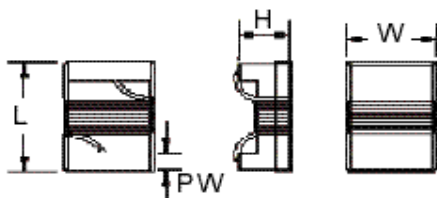
AISC-0603, -0805 SERIES

STANDARD SPECIFICATIONS

Part Number ²	L ^{1,2} (μH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR Ω (MAX)	I _{DC} (mA) (MAX)
AISC-0603-R0018K	0.0018	16	250	6000	0.130	700
AISC-0603-R0033K	0.0033	35	250	6000	0.085	700
AISC-0603-R0047K	0.0047	20	250	6000	0.080	700
AISC-0603-R0056K	0.0056	10	250	6000	0.200	700
AISC-0603-R0068K	0.0068	25	250	5800	0.110	700
AISC-0603-R0082K	0.0082	31	250	5700	0.120	700
AISC-0603-R010K	0.010	30	250	4800	0.130	700
AISC-0603-R012K	0.012	30	250	4000	0.130	700
AISC-0603-R015K	0.015	30	250	4000	0.170	700
AISC-0603-R018K	0.018	30	150	3200	0.170	700
AISC-0603-R022K	0.022	35	250	3000	0.190	700
AISC-0603-R027K	0.027	35	250	2800	0.220	600
AISC-0603-R033K	0.033	35	250	2300	0.220	600
AISC-0603-R039J	0.039	35	250	2200	0.250	600
AISC-0603-R047J	0.047	35	250	2100	0.280	600
AISC-0603-R056J	0.056	35	250	2000	0.310	600
AISC-0603-R068J	0.068	35	250	1850	0.340	600
AISC-0603-R072J	0.072	35	150	1700	0.630	400
AISC-0603-R082J	0.082	35	150	1700	0.670	400
AISC-0603-R10J	0.100	35	150	1500	0.750	400
AISC-0603-R11J	0.110	35	150	1400	0.750	300
AISC-0603-R12J	0.120	35	150	1350	0.790	300
AISC-0603-R15J	0.150	40	150	1200	1.330	200
AISC-0603-R18J	0.180	40	150	1100	1.500	150

Part Number ²	L ^{1,2} (μH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR Ω (MAX)	I _{DC} (mA) (MAX)
AISC-0805-R0022M	0.0022	40	250	6000	0.10	600
AISC-0805-R0027M	0.0027	60	250	6000	0.05	600
AISC-0805-R0033M	0.0033	25	250	6000	0.20	600
AISC-0805-R0047M	0.0047	60	250	6000	0.04	600
AISC-0805-R0056M	0.0056	50	250	5500	0.10	600
AISC-0805-R0068M	0.0068	50	250	5500	0.10	600
AISC-0805-R0082M	0.0082	50	250	5000	0.10	600
AISC-0805-R010M	0.010	50	250	4500	0.14	600
AISC-0805-R012M	0.012	50	250	4100	0.15	600
AISC-0805-R015M	0.015	50	250	2900	0.17	600
AISC-0805-R018M	0.018	50	250	3300	0.20	600
AISC-0805-R022M	0.022	55	250	2600	0.22	500
AISC-0805-R027M	0.027	60	250	2500	0.25	500
AISC-0805-R033K	0.033	60	250	2200	0.10	500
AISC-0805-R039K	0.039	60	250	2100	0.29	500
AISC-0805-R047K	0.047	60	200	1750	0.31	500
AISC-0805-R056K	0.056	60	200	1650	0.32	500
AISC-0805-R068K	0.068	60	200	1500	0.38	500
AISC-0805-R082K	0.082	60	150	1400	0.42	400
AISC-0805-R10K	0.10	60	150	1200	0.45	400
AISC-0805-R12K	0.12	55	150	1200	0.51	400
AISC-0805-R15K	0.15	50	100	1000	0.56	400
AISC-0805-R18K	0.18	50	100	950	0.64	400
AISC-0805-R22K	0.22	45	100	900	1.10	400
AISC-0805-R27K	0.27	40	100	900	1.15	350
AISC-0805-R33K	0.33	40	100	800	1.40	310
AISC-0805-R39K	0.39	35	100	730	2.40	290
AISC-0805-R47K	0.47	35	100	650	2.80	250
AISC-0805-R56K	0.56	35	100	550	1.05	230
AISC-0805-R68K	0.68	30	25	500	1.15	200
AISC-0805-R82K	0.82	25	25	420	1.30	180
AISC-0805-1R0K	1.00	15	25	400	0.90	150

PHYSICAL CHARACTERISTICS



	Length ³ (L)	Width ³ (W)	Height ³ (H)	Pad Width ³ (PW)
AISC -0603	.06±.002 (1,52±0,05)	.03±.002 (0,076±0,05)	.034 MAX (0,87 MAX)	.016±.008 (0,33±0,2)
AISC -0805	.079±.008 (2,0±0,2)	.049±.008 (1,25±0,2)	.047±.008 (1,2±0,2)	.016±.008 (0,4±0,2)

Notes:

1. Tolerance specified as: J = 5%, K = 10%, M = 20%
2. Letter suffix indicates standard tolerance
3. Dimensions: inches / mm; see spec sheet for tolerance limits
4. Specifications subject to change without notice

WIRE-WOUND CHIP INDUCTORS

AISC-1008 SERIES



STANDARD SPECIFICATIONS

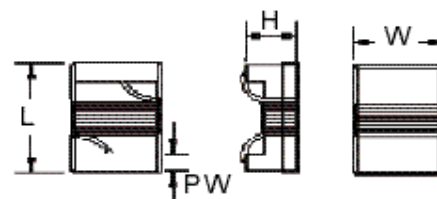
Part Number ²	L ^{1,2} (μH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR Ω (MAX)	I _{DC} (mA) (MAX)
AISC-1008-R0047M	0.0047	60	50	6000	0.11	1000
AISC-1008-R010M	0.010	55	50	4100	0.08	1000
AISC-1008-R012M	0.012	65	50	3400	0.09	1000
AISC-1008-R015M	0.015	55	50	2600	0.13	1000
AISC-1008-R018M	0.018	60	50	2600	0.11	1000
AISC-1008-R022M	0.022	60	50	2400	0.12	1000
AISC-1008-R027M	0.027	60	50	1700	0.13	1000
AISC-1008-R033M	0.033	70	50	1700	0.14	1000
AISC-1008-R039M	0.039	70	50	1600	0.15	1000
AISC-1008-R047M	0.047	70	50	1600	0.18	1000
AISC-1008-R056K	0.056	70	50	1400	0.18	1000
AISC-1008-R068K	0.068	65	50	1200	0.21	1000
AISC-1008-R082K	0.082	65	50	1000	0.22	1000
AISC-1008-R10K	0.10	60	25	1000	0.56	650
AISC-1008-R12K	0.12	60	25	1000	0.63	650
AISC-1008-R15K	0.15	50	25	850	0.62	580
AISC-1008-R18K	0.18	50	25	800	0.70	620
AISC-1008-R22K	0.22	50	25	700	0.80	500
AISC-1008-R27K	0.27	50	25	700	0.91	500
AISC-1008-R33K	0.33	50	25	600	1.05	450

Part Number ²	L ^{1,2} (μH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR Ω (MAX)	I _{DC} (mA) (MAX)
AISC-1008-R39K	0.39	50	25	500	1.12	470
AISC-1008-R47K	0.47	50	25	500	1.19	470
AISC-1008-R56K	0.56	50	25	450	1.33	400
AISC-1008-R62K	0.62	50	25	415	1.40	300
AISC-1008-R68K	0.68	45	25	375	1.47	400
AISC-1008-R75K	0.75	45	25	360	1.54	360
AISC-1008-R82K	0.82	45	25	350	1.61	400
AISC-1008-R91K	0.91	40	25	320	1.68	380
AISC-1008-1R0K	1.00	35	25	290	1.75	370
AISC-1008-1R2K	1.20	35	7.9	250	2.00	310
AISC-1008-1R5K	1.50	28	7.9	200	2.30	300
AISC-1008-1R8K	1.80	28	7.9	160	2.60	300
AISC-1008-2R2K	2.20	28	7.9	160	2.80	280
AISC-1008-2R7K	2.70	22	7.9	140	.20	280
AISC-1008-3R3K	3.30	22	7.9	110	3.40	280
AISC-1008-3R9K	3.90	20	7.9	95	.60	260
AISC-1008-4R7K	4.70	20	7.9	85	4.00	260
AISC-1008-6R8K	6.80	16	7.9	120	5.45	260
AISC-1008-8R2K	8.20	16	7.9	110	6.20	200
AISC-1008-100K	10.00	15	7.9	60	2.80	150

Notes:

1. Tolerance specified as: J = 5%, K = 10%, M = 20%
2. Letter suffix indicates standard tolerance
3. Dimensions: inches / mm; see spec sheet for tolerance limits
4. Specifications subject to change without notice

PHYSICAL CHARACTERISTICS



	Length ³ (L)	Width ³ (W)	Height ³ (H)	Pad Width ³ (PW)
AISC-1008	.098±.0082 (2,5±0,2)	.079±.008 (2,00±0,2)	.063±.008 (1,6±0,2)	.020±.008 (1,6±0,2)

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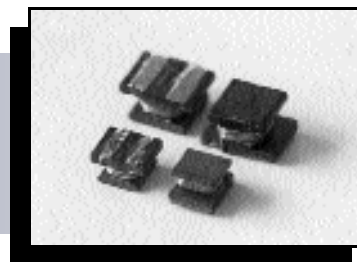
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SURFACE-MOUNT WIRE-WOUND CHIP INDUCTORS

AISC-H SERIES

1210H



FEATURES:

- High Frequency Design
- Excellent Q Values
- Excellent SRF
- High Reliability
- Excellent Thermal Stability

OPTIONS:

- Tape & Reel is Standard (Qty: 2000 pcs.)
- Bulk Packaging Available for Smaller Quantities
- Tolerance: K=10%, M=20% is Standard, Tighter Tolerances Available

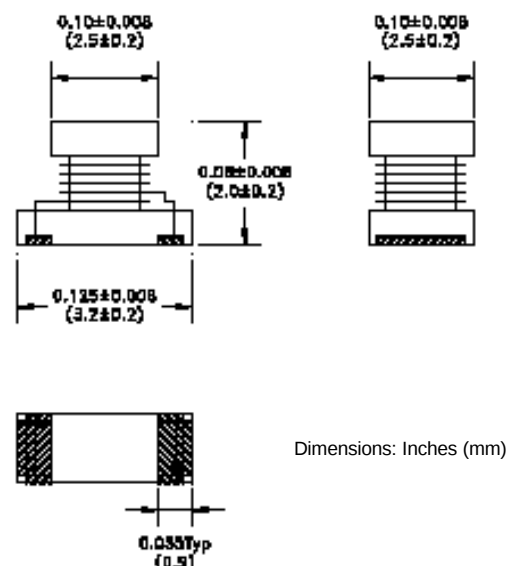
COMMON APPLICATIONS:

- Modems
- Mobile Radios
- Cordless Telephones
- Global Positioning Systems
- Wireless Communications Equipment
- Networking System, xDSL Filter
- Computer Products and Peripherals

STANDARD SPECIFICATIONS

Part Number	L (μH) K=±10% M=±20%	Q Min	L Test Freq (MHz)	SRF Min (MHz)	RDC Max (Ω)	IDC Max (mA)
1210H Series						
AISC-1210H-R10M	0.10	20	1	198	0.25	720
AISC-1210H-R18M	0.18	20	1	198	0.25	660
AISC-1210H-R27M	0.24	25	1	198	0.25	620
AISC-1210H-R39M	0.39	25	1	198	0.25	550
AISC-1210H-R56M	0.56	30	1	162	0.25	550
AISC-1210H-R68M	0.68	30	1	162	0.25	480
AISC-1210H-R82M	0.82	32	1	122	0.25	460
AISC-1210H-1R0M	1.0	20	1	100	0.40	450
AISC-1210H-1R2M	1.2	20	1	100	0.50	130
AISC-1210H-1R5K	1.5	20	1	75	0.60	400
AISC-1210H-1R8K	1.8	20	1	60	0.70	390
AISC-1210H-2R2K	2.2	20	1	50	0.80	370
AISC-1210H-2R7K	2.7	20	1	44	0.90	330
AISC-1210H-3R3K	3.3	20	1	40	1.0	300
AISC-1210H-3R9K	3.9	20	1	35	1.1	290
AISC-1210H-4R7K	4.7	20	1	32	1.2	270
AISC-1210H-5R6K	5.6	20	1	28	1.3	250
AISC-1210H-6R8K	6.8	20	1	25	1.5	240
AISC-1210H-8R2K	8.2	20	1	23	1.6	225
AISC-1210H-100K	10	35	1	20	1.8	190
AISC-1210H-120K	12	35	1	18	2.0	180
AISC-1210H-150K	15	35	1	16	2.2	170
AISC-1210H-180K	18	35	1	15	2.5	165
AISC-1210H-220K	22	35	1	14	2.8	150
AISC-1210H-270K	27	35	1	13	3.1	125
AISC-1210H-330K	33	16	1	12	3.5	115
AISC-1210H-390K	39	40	1	11	3.9	110
AISC-1210H-470K	47	40	1	11	4.3	100
AISC-1210H-560K	56	40	1	10	4.9	90
AISC-1210H-680K	68	40	1	9	5.5	85
AISC-1210H-820K	82	40	1	9	6.2	80
AISC-1210H-101K	100	40	1	8	6.8	78
AISC-1210H-121K	120	40	1	8	7.8	72
AISC-1210H-151K	150	40	1	7	9.2	70
AISC-1210H-181K	180	40	1	7	10	70
AISC-1210H-221K	220	40	1	6	12	65
AISC-1210H-271K	270	40	1	6	13	65
AISC-1210H-331K	330	40	1	5	13	65
AISC-1210H-391K	390	50	1	5	22	50
AISC-1210H-471K	470	50	0.1	5	25	45
AISC-1210H-561K	560	50	0.1	5	28	40

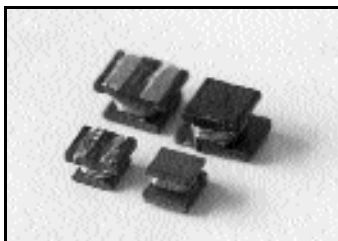
PHYSICAL CHARACTERISTICS



TECHNICAL INFORMATION:

- Testing: HP4291A, HP16193A, HP4286A or equivalent
- Solderability: 75% of the terminal electrode shall be covered
- Soldering methods: Wave, Reflow, Vapor Phase
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -40°C to +85°C

Note: All specifications subject to change without notice.



SURFACE-MOUNT WIRE-WOUND CHIP INDUCTORS

AISC-H SERIES

1812H

FEATURES:

- High Frequency Design
- Excellent Q Values
- Excellent SRF
- High Reliability
- Excellent Thermal Stability

OPTIONS:

- Tape & Reel is Standard (Qty: 2000 pcs.)
Bulk Packaging Available for Smaller Quantities
- Tolerance: K=10%, M=20% is Standard, Tighter Tolerances Available

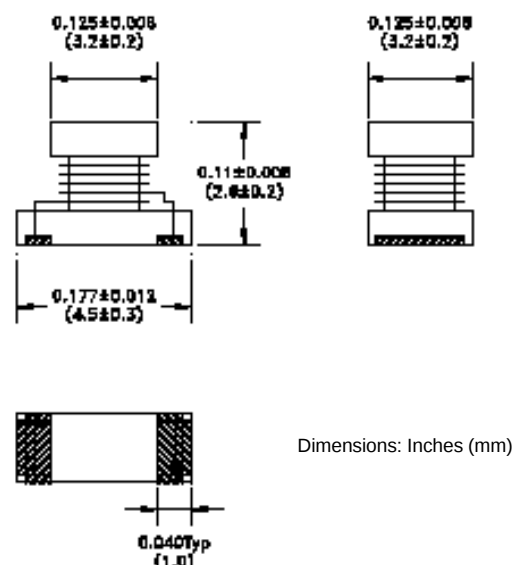
COMMON APPLICATIONS:

- Modems
- Mobile Radios
- Cordless Telephones
- Global Positioning Systems
- Wireless Communications Equipment
- Networking System, xDSL Filter
- Computer Products and Peripherals

STANDARD SPECIFICATIONS

Part Number	L (μH) K=±10% M=±20%	Q Min	L Test Freq (MHz)	SRF Min (MHz)	RDC Max (Ω)	IDC Max (mA)
1812H Series						
AISC-1812H-1R0M	1.00	20	1	120	0.20	550
AISC-1812H-1R2M	1.20	20	1	100	0.25	530
AISC-1812H-1R5M	1.50	20	1	85	0.28	500
AISC-1812H-1R8M	1.80	20	1	75	0.30	500
AISC-1812H-2R2M	2.20	20	1	62	0.30	500
AISC-1812H-2R7M	2.70	20	1	53	0.32	500
AISC-1812H-3R3M	3.30	20	1	47	0.35	500
AISC-1812H-3R9M	3.9	20	1	42	0.38	500
AISC-1812H-4R7K	4.7	30	1	38	0.40	500
AISC-1812H-5R6K	5.6	30	1	35	0.47	500
AISC-1812H-6R8K	6.8	30	1	32	0.50	500
AISC-1812H-8R2K	8.2	30	1	28	0.56	500
AISC-1812H-100K	10.0	35	1	24	0.56	450
AISC-1812H-120K	12.0	35	1	22	0.62	450
AISC-1812H-150K	15.0	35	1	19	0.73	390
AISC-1812H-180K	18.0	35	1	17	0.82	370
AISC-1812H-220K	22.0	35	1	15	0.94	350
AISC-1812H-270K	27.0	35	1	14	1.1	330
AISC-1812H-330K	33.0	35	1	12	1.2	310
AISC-1812H-390K	39	35	1	11	1.4	280
AISC-1812H-470K	47	35	1	10	1.5	250
AISC-1812H-560K	56	35	1	9.5	1.7	225
AISC-1812H-680K	68	35	1	8.5	1.9	200
AISC-1812H-820K	82	35	1	7.5	2.2	185
AISC-1812H-101K	100	35	1	6.8	2.5	175
AISC-1812H-121K	120	40	1	6.2	3.0	165
AISC-1812H-151K	150	40	1	5.5	3.7	155
AISC-1812H-181K	180	40	1	5.0	4.5	135
AISC-1812H-221K	220	40	1	4.5	5.4	125
AISC-1812H-271K	270	40	1	4.0	6.8	115
AISC-1812H-331K	330	40	1	3.7	8.2	100
AISC-1812H-391K	390	40	1	3.3	9.7	90
AISC-1812H-471K	470	40	0.01	3.0	12	80
AISC-1812H-561K	560	40	0.01	2.7	15	70
AISC-1812H-681K	680	40	0.01	2.5	17	65
AISC-1812H-821K	820	40	0.01	2.2	21	60
AISC-1812H-102K	1000	40	0.01	2.0	25	50
AISC-1812H-122K	1200	40	0.01	1.8	30	45
AISC-1812H-152K	1500	40	0.01	1.6	37	40
AISC-1812H-182K	1800	40	0.01	1.5	45	35
AISC-1812H-222K	2200	40	0.01	1.3	50	30

PHYSICAL CHARACTERISTICS



TECHNICAL INFORMATION:

- Testing: HP4291A, HP16193A, HP4286A or equivalent
- Solderability: 75% of the terminal electrode shall be covered
- Soldering Methods: Wave, Reflow, Vapor Phase
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -40°C to +85°C

Note: All specifications subject to change without notice.



WIRE WOUND MOLDED SHIELDED CHIP INDUCTORS

AISS-1210 SERIES

STANDARD SPECIFICATIONS

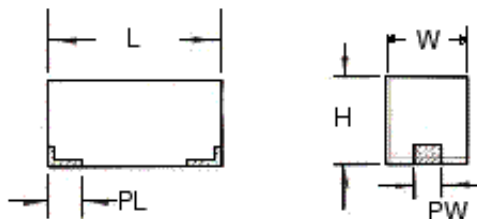
Part Number ²	L ^{1,2} (μH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR Ω (MAX)	Idc ³ (mA) (MAX)
AISS-1210-R010M	0.010	50	50	1000	0.10	810
AISS-1210-R012M	0.012	50	50	1000	0.11	750
AISS-1210-R015M	0.015	50	50	1000	0.12	720
AISS-1210-R018M	0.018	50	50	1000	0.13	690
AISS-1210-R022M	0.022	45	50	1000	0.15	640
AISS-1210-R027M	0.027	45	50	1000	0.17	610
AISS-1210-R033M	0.033	45	50	1000	0.18	585
AISS-1210-R039M	0.039	40	50	1000	0.24	530
AISS-1210-R047M	0.047	40	50	1000	0.26	495
AISS-1210-R056M	0.056	40	50	1000	0.28	485
AISS-1210-R068M	0.068	40	50	1000	0.35	475
AISS-1210-R082M	0.082	38	50	900	0.45	460
AISS-1210-R10M	0.10	36	25.2	700	0.50	450
AISS-1210-R12M	0.12	40	25.2	500	0.20	630
AISS-1210-R15M	0.15	40	25.2	470	0.20	600
AISS-1210-R18M	0.18	40	25.2	400	0.24	580
AISS-1210-R22M	0.22	40	25.2	330	0.30	565
AISS-1210-R27M	0.27	40	25.2	310	0.33	500
AISS-1210-R33M	0.33	40	25.2	280	0.36	475
AISS-1210-R39M	0.39	40	25.2	230	0.40	465
AISS-1210-R47M	0.47	40	25.2	220	0.44	460
AISS-1210-R56M	0.56	40	25.2	200	0.46	455
AISS-1210-R68M	0.68	40	25.2	180	0.48	450
AISS-1210-R82M	0.82	40	25.2	160	0.50	450
AISS-1210-1R0K	1.00	30	7.96	120	0.60	400

Part Number ²	L ¹ (μH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR Ω (MAX)	Idc ³ (mA) (MAX)
AISS-1210-1R2K	1.2	30	7.96	110	0.65	390
AISS-1210-1R5K	1.5	30	7.96	90	0.75	370
AISS-1210-1R8K	1.8	30	7.96	85	0.85	350
AISS-1210-2R2K	2.2	30	7.96	65	0.90	320
AISS-1210-2R7K	2.7	30	7.96	60	1.0	290
AISS-1210-3R3K	3.3	30	7.96	60	1.1	270
AISS-1210-3R9K	3.9	30	7.96	58	1.2	250
AISS-1210-4R7KL	4.7	30	7.96	52	1.3	220
AISS-1210-5R6K	5.6	30	7.96	50	1.4	205
AISS-1210-6R8K	6.8	30	7.96	40	1.6	200
AISS-1210-8R2K	8.2	30	7.96	35	1.7	195
AISS-1210-100K	10	30	2.52	30	2.0	185
AISS-1210-120K	12	30	2.52	24	2.3	175
AISS-1210-150K	15	30	2.52	20	2.5	165
AISS-1210-180K	18	30	2.52	17	2.7	155
AISS-1210-220K	22	30	2.52	16	3.1	150
AISS-1210-270K	27	30	2.52	14	3.3	125
AISS-1210-330K	33	30	2.52	14	5.1	115
AISS-1210-390K	39	30	2.52	14	5.9	105
AISS-1210-470K	47	30	2.52	13	8.0	100
AISS-1210-560K	56	30	2.52	11	10.0	95
AISS-1210-680K	68	30	2.52	11	11.0	90
AISS-1210-820K	82	30	2.52	11	12.0	85
AISS-1210-101K	100	30	0.796	6	12.0	80

Notes:

- Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
- Letter suffix indicates standard tolerance
- Current rating at which inductance (L) drops 10%
- Operating temperature -40°C to 85°C
- Dimensions: inches / mm; see spec sheet for tolerance limits
- Specifications subject to change without notice

PHYSICAL CHARACTERISTICS



	Length ⁵ (L)	Width ⁵ (W)	Height ⁵ (H)	Pad Width ⁵ (BW)	Pad Length ⁵ (PL)
AISS-1210	0.125±.008 (3,25±0,2)	0.098±.008 (2,49±0,2)	0.086±.008 (2,2±0,2)	0.040±.004 (1,02±0,1)	0.028±.004 (0,71±0,1)



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WIRE WOUND MOLDED SHIELDED CHIP INDUCTORS

AISS-1812 SERIES

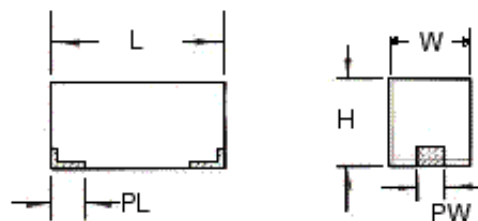


STANDARD SPECIFICATIONS

Part Number ²	L ^{1,2} (μH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR Ω (MAX)	I _{DC} ³ (mA) (MAX)
AISS-1812-R10M	0.1	30	25.2	460	0.23	450
AISS-1812-R12M	0.12	30	25.2	400	0.26	450
AISS-1812-R15M	0.15	30	25.2	390	0.29	450
AISS-1812-R18M	0.18	30	25.2	350	0.32	450
AISS-1812-R22M	0.22	30	25.2	310	0.36	450
AISS-1812-R27M	0.27	30	25.2	280	0.4	450
AISS-1812-R33M	0.33	30	25.2	240	0.45	450
AISS-1812-R39M	0.39	30	25.2	215	0.6	410
AISS-1812-R47M	0.47	30	25.2	205	0.75	370
AISS-1812-R56M	0.56	30	25.2	195	0.8	355
AISS-1812-R68M	0.68	30	25.2	165	0.95	310
AISS-1812-R82M	0.82	30	25.2	155	1.2	285
AISS-1812-1R0K	1.0	30	7.96	140	0.35	150
AISS-1812-1R2K	1.2	30	7.96	120	0.38	145
AISS-1812-1R5K	1.5	30	7.96	100	0.4	140
AISS-1812-1R8K	1.8	30	7.96	90	0.43	130
AISS-1812-2R2K	2.2	30	7.96	80	0.46	120
AISS-1812-2R7K	2.7	30	7.96	67	0.49	110
AISS-1812-3R3K	3.3	30	7.96	61	0.55	105
AISS-1812-3R9K	3.9	30	7.96	56	0.59	100
AISS-1812-4R7K	4.7	30	7.96	50	0.61	92
AISS-1812-5R6K	5.6	30	7.96	40	0.69	86
AISS-1812-6R8K	6.8	30	7.96	32	0.75	80
AISS-1812-8R2K	8.2	30	7.96	30	0.82	75
AISS-1812-100K	10	30	2.52	25	0.9	70

Part Number ²	L ¹ (μH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR Ω (MAX)	I _{DC} ³ (mA) (MAX)
AISS-1812-120K	12	30	2.52	22	1.0	65
AISS-1812-150K	15	30	2.52	18	1.1	60
AISS-1812-180K	18	30	2.52	14	1.4	54
AISS-1812-220K	22	30	2.52	13	1.5	52
AISS-1812-270K	27	50	2.52	13	1.6	50
AISS-1812-330K	33	50	2.52	12	1.7	47
AISS-1812-390K	39	50	2.52	11	1.9	44
AISS-1812-470K	47	50	2.52	9.0	2.1	41
AISS-1812-560K	56	50	2.52	8.0	2.3	39
AISS-1812-680K	68	50	2.52	7.6	2.6	39
AISS-1812-820K	82	50	2.52	7.2	2.9	36
AISS-1812-101K	100	50	0.796	7.0	3.3	32
AISS-1812-121K	120	50	0.796	6.0	3.6	30
AISS-1812-151K	150	50	0.796	5.0	4.2	28
AISS-1812-181K	180	40	0.796	4.5	5.7	26
AISS-1812-221K	220	40	0.796	4.2	6.3	24
AISS-1812-271K	270	40	0.796	4.0	6.9	23
AISS-1812-331K	330	40	0.796	3.7	7.5	22
AISS-1812-391K	390	40	0.796	3.5	8.2	21
AISS-1812-471K	470	40	0.796	3.3	9.2	19
AISS-1812-561K	560	40	0.796	2.8	10.5	18
AISS-1812-681K	680	40	0.796	2.6	12.0	17
AISS-1812-821K	820	40	0.796	3.5	13.5	16
AISS-1812-102K	1000	40	0.796	2.0	16.0	15

PHYSICAL CHARACTERISTICS



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 -40°C to 85°C
5. Dimensions: inches / mm; see spec sheet for tolerance limits
6. Specifications subject to change without notice

	Length ⁵ (L)	Width ⁵ (W)	Height ⁵ (H)	Pad Width ⁵ (BW)	Pad Length ⁵ (PL)
AISS-1812	0.177±.012 (4,5±0,3)	0.125±.008 (3,2±0,2)	0.125±.008 (3,2±0,2)	0.050±.004 (1,27±0,1)	0.040±.004 (1,0±0,1)

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ABRACON

CORPORATION



WIRE WOUND MOLDED CHIP INDUCTORS

AIMS-1008 SERIES

STANDARD SPECIFICATIONS

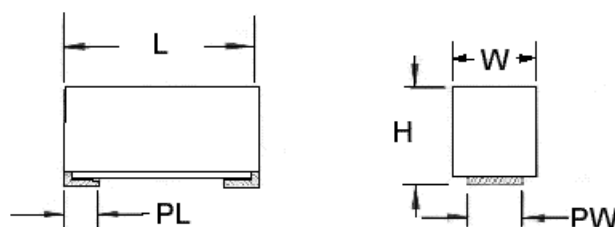
Part Number ²	L ^{1,2} (μH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR Ω (MAX)	Idc ³ (mA) (MAX)
AIMS-1008-R12K	0.12	30	25.2	600	0.37	520
AIMS-1008-R15K	0.15	30	25.2	550	0.42	480
AIMS-1008-R18K	0.18	30	25.5	500	0.46	460
AIMS-1008-R22K	0.22	30	25.2	450	0.52	430
AIMS-1008-R27K	0.27	30	25.2	425	0.56	420
AIMS-1008-R33K	0.33	30	25.2	400	0.60	400
AIMS-1008-R39K	0.39	30	25.2	375	0.65	375
AIMS-1008-R47K	0.47	30	25.2	350	0.68	350
AIMS-1008-R56K	0.56	30	25.2	300	0.75	325
AIMS-1008-R68K	0.68	30	25.2	270	0.85	300
AIMS-1008-R82K	0.82	30	25.2	250	1.00	260
AIMS-1008-1R0J	1.00	30	7.96	220	1.10	245
AIMS-1008-1R2J	1.20	30	7.96	180	1.20	230
AIMS-1008-1R5J	1.50	30	7.96	135	1.30	220
AIMS-1008-1R8J	1.80	30	7.96	100	1.45	210
AIMS-1008-2R2J	2.20	30	7.96	75	1.55	200
AIMS-1008-2R7J	2.70	30	7.96	55	1.70	195
AIMS-1008-3R3J	3.30	30	7.96	48	1.90	185

Part Number ²	L ^{1,2} (μH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR Ω (MAX)	Idc ³ (mA) (MAX)
AIMS-1008-3R9J	3.90	30	7.96	43	2.10	180
AIMS-1008-4R7J	4.70	30	7.96	40	2.30	170
AIMS-1008-5R6J	5.60	25	7.96	36	2.50	170
AIMS-1008-6R8J	6.80	25	7.96	33	2.70	165
AIMS-1008-8R2J	8.20	25	7.96	30	3.05	160
AIMS-1008-100J	10.00	25	2.52	27	3.50	155
AIMS-1008-120J	12.00	25	2.52	23	3.80	150
AIMS-1008-150J	15.00	25	2.52	20	4.40	140
AIMS-1008-180J	18.00	25	2.52	18	4.80	130
AIMS-1008-220J	22.00	25	2.52	17	5.50	125
AIMS-1008-270J	27.00	25	2.52	16	6.30	115
AIMS-1008-330J	33.00	25	2.52	15	7.10	110
AIMS-1008-390J	39.00	20	2.52	14	9.50	90
AIMS-1008-470J	47.00	20	2.52	13	11.10	80
AIMS-1008-560J	56.00	20	2.52	12	12.10	75
AIMS-1008-680H	68.00	20	2.52	11	16.60	70
AIMS-1008-820J	82.00	20	2.52	10	19.00	65
AIMS-1008-101J	100.00	15	2.52	9	21.00	60

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 -40°C to 125°C
5. Dimensions: inches / mm; see spec sheet for tolerance limits
6. Specifications subject to change without notice

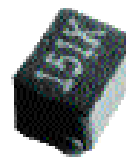
PHYSICAL CHARACTERISTICS



	Length ⁵ (L)	Width ⁵ (W)	Height ⁵ (H)	Pad Width ⁵ (BW)	Pad Length ⁵ (PL)
AIMS-1008	0.1±.008 (2,5±0,2)	0.079±.008 (2,0±0,2)	0.07±.008 (1,8±0,2)	0.55±.004 (1,4±0,1)	0.018±.004 (0,45±0,1)

WIRE WOUND MOLDED CHIP INDUCTORS

AIMS-1812 SERIES



STANDARD SPECIFICATIONS

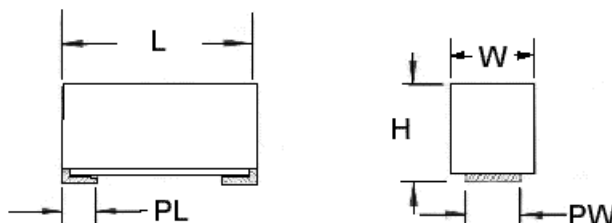
Part Number ²	L ¹ (μH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR Ω (MAX)	I _{DC} ³ (mA) (MAX)
AIMS-1812-R10M	0.10	35	25.2	300	0.20	800
AIMS-1812-R12M	0.12	35	25.2	300	0.20	770
AIMS-1812-R15M	0.15	35	25.2	250	0.20	730
AIMS-1812-R18M	0.18	35	25.2	220	0.20	700
AIMS-1812-R22M	0.22	40	25.2	200	0.30	665
AIMS-1812-R27M	0.27	40	25.2	180	0.30	635
AIMS-1812-R33M	0.33	40	25.2	165	0.30	605
AIMS-1812-R39M	0.39	40	25.2	150	0.30	575
AIMS-1812-R47M	0.47	40	25.2	145	0.30	545
AIMS-1812-R56M	0.56	40	25.2	140	0.40	520
AIMS-1812-R68M	0.68	40	25.2	135	0.40	500
AIMS-1812-R82M	0.82	40	25.2	130	0.50	475
AIMS-1812-1R0K	1.0	50	7.96	100	0.50	450
AIMS-1812-1R2K	1.2	50	7.96	80	0.60	430
AIMS-1812-1R5K	1.5	50	7.96	70	0.60	410
AIMS-1812-1R8K	1.8	50	7.96	60	0.70	390
AIMS-1812-2R2K	2.2	50	7.96	55	0.70	380
AIMS-1812-2R7K	2.7	50	7.96	50	0.80	370
AIMS-1812-3R3K	3.3	50	7.96	45	0.80	355
AIMS-1812-3R9K	3.9	50	7.96	40	0.90	330
AIMS-1812-4R7K	4.7	50	7.96	35	1.00	315
AIMS-1812-5R6K	5.6	50	7.96	33	1.10	300
AIMS-1812-6R8K	6.8	50	7.96	27	1.20	285
AIMS-1812-8R2K	8.2	50	7.96	25	1.40	270
AIMS-1812-100K	10	50	2.52	20	1.60	250

Part Number ²	L ¹ (μH)	Q (MIN)	L Test (MHz)	SRF (MIN) (MHz)	DCR Ω (MAX)	I _{DC} ³ (mA) (MAX)
AIMS-1812-120K	12	50	2.52	18	2.0	225
AIMS-1812-150K	15	50	2.52	17	2.5	200
AIMS-1812-180K	18	50	2.52	15	2.8	190
AIMS-1812-220K	22	50	2.52	13	3.2	180
AIMS-1812-270K	27	50	2.52	12	3.6	170
AIMS-1812-330K	33	50	2.52	11	4.0	160
AIMS-1812-390K	39	50	2.52	10	4.5	150
AIMS-1812-470K	47	50	2.52	10	5.0	140
AIMS-1812-560K	56	50	2.52	9	5.5	135
AIMS-1812-680K	68	50	2.52	9	6.0	130
AIMS-1812-820K	82	50	2.52	8	7.0	120
AIMS-1812-101K	100	30	0.796	8	8.0	110
AIMS-1812-121K	120	40	0.796	6	8.0	110
AIMS-1812-151K	150	40	0.796	5	9.0	105
AIMS-1812-181K	180	40	0.796	5	9.5	102
AIMS-1812-221K	220	40	0.796	4	10	100
AIMS-1812-271K	270	40	0.796	4	12	92
AIMS-1812-331K	330	40	0.796	3.5	14	85
AIMS-1812-391K	390	40	0.796	3	18	80
AIMS-1812-471K	470	40	0.796	3	26	62
AIMS-1812-561K	560	30	0.796	3	30	50
AIMS-1812-681K	680	30	0.796	3	30	50
AIMS-1812-821K	820	30	0.796	2.5	35	30
AIMS-1812-102K	1000	20	0.252	2.5	4.0	30

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 -40°C to 125°C
5. Dimensions: inches / mm; see spec sheet for tolerance limits
6. Specifications subject to change without notice

PHYSICAL CHARACTERISTICS



	Length ⁵ (L)	Width ⁵ (W)	Height ⁵ (H)	Pad Width ⁵ (BW)	Pad Length ⁵ (PL)
AIMS-1812	0.777±.012 (4,5±0,3)	0.125±.008 (3,2±0,2)	0.125±.008 (3,2±0,2)	0.047±.004 (1,2±0,1)	0.40±.004 (1,0±0,1)

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