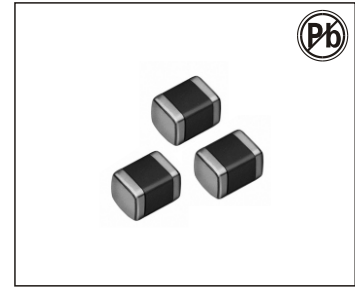


SURFACE-MOUNT MULTI-LAYER FERRITE CHIP INDUCTORS

AIML-0402 SERIES



FEATURES:

- Compact size and light weight
- Excellent solderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield

COMMON APPLICATIONS:

- Resonance circuit, traps, filter circuits
- RF choke in telecommunications equipment, cordless phones, radio equipment

ELECTRICAL CHARACTERISTICS:

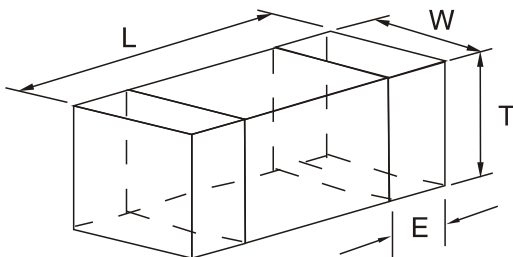
Part Number	L(μH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0402-47NK	0.047	10	50	220	0.45	25
AIML0402-56NK	0.056	10	50	210	0.45	25
AIML0402-68NK	0.068	10	50	210	0.45	25
AIML0402-82NK	0.082	10	50	200	0.45	25
AIML0402-R10K	0.1	15	25	200	0.7	25
AIML0402-R12K	0.12	15	25	165	0.7	25
AIML0402-R15K	0.15	15	25	140	0.8	25
AIML0402-R18K	0.18	15	25	120	0.8	25
AIML0402-R22K	0.22	15	25	110	1.0	25
AIML0402-R27K	0.27	15	25	95	1.2	25
AIML0402-R33K	0.33	15	25	85	1.2	25
AIML0402-R39K	0.39	15	10	70	0.6	20
AIML0402-R47K	0.47	15	10	68	0.7	20
AIML0402-R56K	0.56	15	10	55	0.8	20
AIML0402-R68K	0.68	15	10	50	0.9	20
AIML0402-R82K	0.82	15	10	45	0.9	18
AIML0402-1R0K	1.0	20	10	40	0.9	15
AIML0402-1R2K	1.2	20	10	35	1.2	15

TECHNICAL INFORMATION:

- Testing:(Equivalent acceptable)
Inductance & Q-HP4195A+HP41951
DCR:VOAC-7412
SRF:HP8753C
- Solderability:75% of the terminal electrode shall be covered
Preheat:@ 180°C ± 5°C for 2-3 minutes
Solder temperature:230°C for 4 seconds ± 1 second Flux:Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC:The DC current at which tither the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20°C
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -25°C to +85°C

PHYSICAL CHARACTERISTICS:

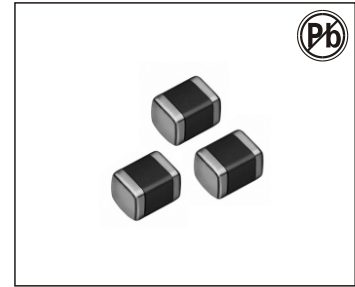
Dimensions:(mm)



L	1.0 ± 0.15
W	0.5 ± 0.15
T	0.5 ± 0.15
E	0.25 ± 0.1

SURFACE-MOUNT MULTI-LAYER FERRITE CHIP INDUCTORS

AIML-0603 SERIES



FEATURES:

- Compact size and light weight
- Excellentsolderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield

COMMON APPLICATIONS:

- Resonance circuit, traps, filter circuits
- RF choke in telecommunications equipment, cordless phones, radio equipment

ELECTRICAL CHARACTERISTICS:

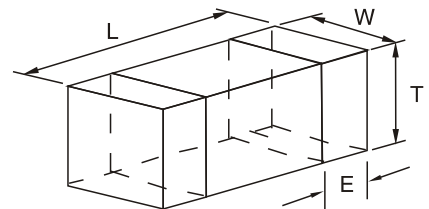
Part Number	L(uH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0603-47NK	0.047	15	50	260	0.20	50
AIML0603-56NK	0.056	15	50	260	0.20	50
AIML0603-68NK	0.068	15	50	250	0.20	50
AIML0603-82NK	0.082	15	50	245	0.20	50
AIML0603-R10K	0.10	20	25	240	0.25	50
AIML0603-R12K	0.12	20	25	205	0.30	50
AIML0603-R15K	0.15	20	25	180	0.30	50
AIML0603-R18K	0.18	20	25	165	0.30	50
AIML0603-R22K	0.22	20	25	150	0.40	50
AIML0603-R27K	0.27	20	25	136	0.45	50
AIML0603-R33K	0.33	20	25	125	0.50	50
AIML0603-R39K	0.39	20	25	110	0.60	50
AIML0603-R47K	0.47	20	25	105	0.70	50
AIML0603-R56K	0.56	20	25	95	0.70	50
AIML0603-R68K	0.68	20	25	90	0.90	50
AIML0603-R82K	0.82	20	25	85	1.00	50
AIML0603-1R0K	1.0	25	10	75	0.50	25
AIML0603-1R2K	1.2	25	10	65	0.55	25
AIML0603-1R5K	1.5	25	10	60	0.70	25
AIML0603-1R8K	1.8	25	10	55	0.75	25
AIML0603-2R2K	2.2	25	10	50	0.80	25
AIML0603-2R7K	2.7	25	10	45	0.90	15
AIML0603-3R3K	3.3	25	10	40	1.00	15
AIML0603-3R9K	3.9	25	10	35	1.30	15
AIML0603-4R7K	4.7	25	4	33	1.50	15
AIML0603-5R6K	5.6	12	4	22	1.55	5
AIML0603-6R8K	6.8	12	4	20	1.55	5
AIML0603-8R2K	8.2	12	4	18	1.65	5
AIML0603-100K	10	20	2	17	1.75	3
AIML0603-120K	12	20	2	15	1.85	3
AIML0603-150M	15 ± 20%	20	1	14	2.50	1
AIML0603-180M	18 ± 20%	20	1	13	2.70	1
AIML0603-220M	22 ± 20%	20	1	12	3.00	1

TECHNICAL INFORMATION:

- Testing:(Equivalent acceptable)
Inductance & Q-HP4195A+HP41951
DCR:VOAC-7412
SRF:HP8753C
- Solderability:75% of the terminal electrode shall be covered
Preheat:@ 180°C ± 5°C for 2-3 minutes
Solder temperature:230°C for 4 seconds ± 1 second Flux:Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC:The DC current at which tither the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20°C
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -25°C to +85°C

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



L	1.6 ± 0.2
W	0.8 ± 0.2
T	0.8 ± 0.2
E	0.3 ± 0.2

SURFACE-MOUNT MULTI-LAYER HIGH CURRENT INDUCTORS AIML-0603H SERIES



FEATURES:

- Compact size and light weight
- Excellent solderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield
- Low RDC and High IDC

COMMON APPLICATIONS:

- Cellular platform DC-DC converter circuit
- Portable AV equipment (digital camera, DVD Type)
- Cellular platform (handset Type)
- Memex (computer Type)

ELECTRICAL CHARACTERISTICS:

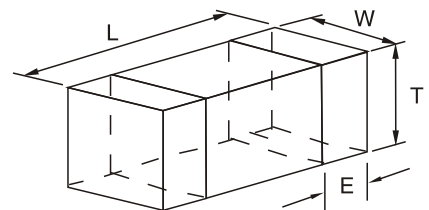
Part Number	L(μH) ± 20%	L Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0603H-47NM	0.047	1	260	0.12	150
AIML0603H-56NM	0.056	1	260	0.12	150
AIML0603H-68NM	0.068	1	250	0.12	150
AIML0603H-82NM	0.082	1	245	0.12	150
AIML0603H-R10M	0.10	1	240	0.15	150
AIML0603H-R12M	0.12	1	205	0.20	150
AIML0603H-R15M	0.15	1	180	0.20	150
AIML0603H-R18M	0.18	1	165	0.20	150
AIML0603H-R22M	0.22	1	150	0.25	150
AIML0603H-R27M	0.27	1	136	0.30	100
AIML0603H-R33M	0.33	1	125	0.30	100
AIML0603H-R39M	0.39	1	110	0.35	100
AIML0603H-R47M	0.47	1	105	0.45	100
AIML0603H-R56M	0.56	1	95	0.45	100
AIML0603H-R68M	0.68	1	90	0.55	100
AIML0603H-R82M	0.82	1	85	0.60	100
AIML0603H-1R0M	1.0	1	75	0.30	150
AIML0603H-1R2M	1.2	1	65	0.30	150
AIML0603H-1R5M	1.5	1	60	0.35	120
AIML0603H-1R8M	1.8	1	55	0.40	120
AIML0603H-2R2M	2.2	1	50	0.50	120
AIML0603H-2R7M	2.7	1	45	0.60	100
AIML0603H-3R3M	3.3	1	40	0.65	100
AIML0603H-3R9M	3.9	1	35	0.70	80
AIML0603H-4R7M	4.7	1	33	0.75	80
AIML0603H-5R6M	5.6	1	22	0.90	60
AIML0603H-6R8M	6.8	1	20	0.90	60
AIML0603H-8R2M	8.2	1	18	1.05	60
AIML0603H-100M	10	1	17	1.15	60
AIML0603H-120M	12	1	15	1.25	60

TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable)
Inductance & Q-HP4195A+HP41951
DCR: VOAC-7412
SRF: HP8753C
- Solderability: 75% of the terminal electrode shall be covered
Preheat: @ 180°C ± 5°C for 2-3 minutes
Solder temperature: 230°C for 4 seconds ± 1 second
Flux: Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC: The DC current at which the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20°C
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -25°C to +85°C

PHYSICAL CHARACTERISTICS:

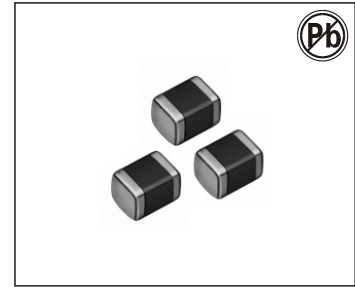
Dimensions: (mm)



L	1.6 ± 0.2
W	0.8 ± 0.2
T	0.8 ± 0.2
E	0.3 ± 0.3

SURFACE-MOUNT MULTI-LAYER FERRITE CHIP INDUCTORS

AIML-0805 SERIES



FEATURES:

- Compact size and light weight
- Excellentsolderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield

COMMON APPLICATIONS:

- Resonance circuit, traps, filter circuits
- RF choke in telecommunications equipment, cordless phones, radio equipment

ELECTRICAL CHARACTERISTICS:

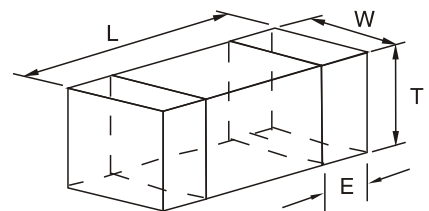
Part Number	L(μH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0805-47NK	0.047	25	50	320	0.15	300
AIML0805-56NK	0.056	25	50	320	0.15	300
AIML0805-68NK	0.068	25	50	280	0.20	300
AIML0805-82NK	0.082	25	50	280	0.20	300
AIML0805-R10K	0.10	20	25	235	0.20	250
AIML0805-R12K	0.12	20	25	220	0.25	250
AIML0805-R15K	0.15	20	25	200	0.25	250
AIML0805-R18K	0.18	20	25	185	0.30	250
AIML0805-R22K	0.22	20	25	170	0.30	250
AIML0805-R27K	0.27	20	25	150	0.40	250
AIML0805-R33K	0.33	20	25	145	0.40	250
AIML0805-R39K	0.39	25	25	135	0.50	200
AIML0805-R47K	0.47	25	25	125	0.50	200
AIML0805-R56K	0.56	25	25	115	0.60	150
AIML0805-R68K	0.68	25	25	105	0.65	150
AIML0805-R82K	0.82	25	25	100	0.70	150
AIML0805-1R0K	1.0	35	10	75	0.40	50
AIML0805-1R2K	1.2	35	10	65	0.40	50
AIML0805-1R5K	1.5	35	10	60	0.40	50
AIML0805-1R8K	1.8	35	10	55	0.40	50
AIML0805-2R2K	2.2	35	10	50	0.60	50
AIML0805-2R7K	2.7	35	10	45	0.60	50
AIML0805-3R3K	3.3	35	10	41	0.60	50
AIML0805-3R9K	3.9	35	10	38	0.80	50
AIML0805-4R7K	4.7	35	10	35	0.90	30
AIML0805-5R6K	5.6	30	4	32	1.00	15
AIML0805-6R8K	6.8	30	4	29	1.05	15
AIML0805-8R2K	8.2	30	4	26	1.05	15
AIML0805-100K	10	30	2	24	1.15	15
AIML0805-120K	12	30	2	22	1.15	15
AIML0805-150K	15	25	1	19	1.15	5
AIML0805-180K	18	25	1	18	1.20	5
AIML0805-220K	22	25	1	16	1.20	5
AIML0805-270K	27	25	1	16	1.50	5
AIML0805-330M	33 ± 20%	25	1	16	1.50	5
AIML0805A-390M	39 ± 20%	25	1	16	1.50	5
AIML0805A-470M	47 ± 20%	25	1	15	1.70	5

TECHNICAL INFORMATION:

- Testing:(Equivalent acceptable)
Inductance & Q-HP4195A+HP41951
DCR:VOAC-7412
SRF:HP8753C
- Solderability:75% of the terminal electrode shall be covered
Preheat:@ 180°C ± 5°C for 2-3 minutes
Solder temperature:230°C for 4 seconds ± 1 second Flux:Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC:The DC current at which tither the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20°C
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -25°C to +85°C

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



L	2.0 ± 0.2	
W	1.2 ± 0.2	
T	(0805) 0.9 ± 0.2	(0805A) 1.2 ± 0.2
E	0.5 ± 0.3	

SURFACE-MOUNT MULTI-LAYER HIGH CURRENT INDUCTORS AIML-0805H SERIES



FEATURES:

- Compact size and light weight
- Excellent solderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield
- Low RDC and High IDC

COMMON APPLICATIONS:

- Cellular platform DC-DC converter circuit
- Portable AV equipment (digital camera, DVD Type)
- Cellular platform (handset Type)
- Memex (computer Type)

ELECTRICAL CHARACTERISTICS:

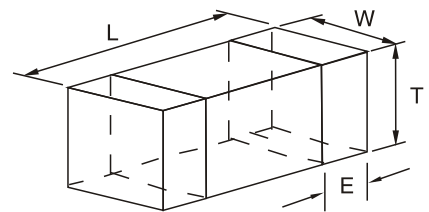
Part Number	L(μH) ± 20%	L Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0805H-47NM	0.047	1	320	0.15	350
AIML0805H-56NM	0.056	1	320	0.15	350
AIML0805H-68NM	0.068	1	280	0.20	350
AIML0805H-82NM	0.082	1	280	0.20	350
AIML0805H-R10M	0.10	1	235	0.20	350
AIML0805H-R12M	0.12	1	220	0.20	350
AIML0805H-R15M	0.15	1	200	0.20	350
AIML0805H-R18M	0.18	1	185	0.25	300
AIML0805H-R22M	0.22	1	170	0.25	300
AIML0805H-R27M	0.27	1	150	0.25	300
AIML0805H-R33M	0.33	1	145	0.25	300
AIML0805H-R39M	0.39	1	135	0.30	250
AIML0805H-R47M	0.47	1	125	0.30	250
AIML0805H-R56M	0.56	1	115	0.36	200
AIML0805H-R68M	0.68	1	105	0.36	200
AIML0805H-R82M	0.82	1	100	0.36	200
AIML0805H-1R0M	1.0	1	75	0.26	220
AIML0805H-1R2M	1.2	1	65	0.26	220
AIML0805H-1R5M	1.5	1	60	0.30	180
AIML0805H-1R8M	1.8	1	55	0.30	180
AIML0805H-2R2M	2.2	1	50	0.36	150
AIML0805H-2R7M	2.7	1	45	0.36	150
AIML0805H-3R3M	3.3	1	41	0.40	120
AIML0805H-3R9M	3.9	1	38	0.40	120
AIML0805H-4R7M	4.7	1	35	0.40	120
AIML0805H-5R6M	5.6	1	32	0.60	100
AIML0805H-6R8M	6.8	1	29	0.60	100
AIML0805H-8R2M	8.2	1	26	0.65	100
AIML0805H-100M	10	1	24	0.65	100
AIML0805H-120M	12	1	22	0.65	100
AIML0805H-150M	15	1	19	0.75	50
AIML0805H-180M	18	1	18	0.75	50
AIML0805H-220M	22	1	16	0.75	50

TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable)
Inductance & Q-HP4195A+HP41951
DCR: VOAC-7412
SRF: HP8753C
- Solderability: 75% of the terminal electrode shall be covered
Preheat: @ 180°C ± 5°C for 2-3 minutes
Solder temperature: 230°C for 4 seconds ± 1 second
Flux: Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC: The DC current at which the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20°C
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -25°C to +85°C

PHYSICAL CHARACTERISTICS:

Dimensions: (mm)



L	2.0 ± 0.2
W	1.2 ± 0.2
T	0.9 ± 0.2
E	0.5 ± 0.3

SURFACE-MOUNT MULTI-LAYER HIGH CURRENT INDUCTORS AIML-0805UH SERIES



FEATURES:

- Compact size and light weight
- Excellent solderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield
- Low RDC and High IDC

COMMON APPLICATIONS:

- Cellular platform DC-DC converter circuit
- Portable AV equipment (digital camera, DVD Type)
- Cellular platform (handset Type)
- Memex (computer Type)

ELECTRICAL CHARACTERISTICS:

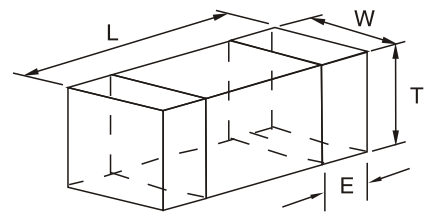
Part Number	L(μH) ± 20%	L Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0805UH-47NM	0.047	1	280	0.10	1100
AIML0805UH-56NM	0.056	1	280	0.10	1100
AIML0805UH-68NM	0.068	1	250	0.15	1100
AIML0805UH-82NM	0.082	1	250	0.15	1100
AIML0805UH-R10M	0.10	1	210	0.15	1100
AIML0805UH-R12M	0.12	1	200	0.15	1100
AIML0805UH-R15M	0.15	1	175	0.15	1100
AIML0805UH-R18M	0.18	1	160	0.15	1100
AIML0805UH-R22M	0.22	1	150	0.15	1100
AIML0805UH-R27M	0.27	1	130	0.15	1100
AIML0805UH-R33M	0.33	1	120	0.15	1100
AIML0805UH-R39M	0.39	1	110	0.15	1100
AIML0805UH-R47M	0.47	1	100	0.15	1100
AIML0805UH-R56M	0.56	1	100	0.36	800
AIML0805UH-R68M	0.68	1	95	0.36	800
AIML0805UH-R82M	0.82	1	90	0.36	800
AIML0805UH-1R0M	1.0	1	75	0.24	800
AIML0805UH-1R2M	1.2	1	65	0.24	800
AIML0805UH-1R5M	1.5	1	60	0.30	700
AIML0805UH-1R8M	1.8	1	55	0.36	600
AIML0805UH-2R2M	2.2	1	50	0.36	600
AIML0805UH-2R7M	2.7	1	45	0.36	600
AIML0805UH-3R3M	3.3	1	41	0.40	350
AIML0805UH-3R9M	3.9	1	38	0.40	350
AIML0805UH-4R7M	4.7	1	35	0.40	350
AIML0805UH-5R6M	5.6	1	32	0.50	250
AIML0805UH-6R8M	6.8	1	29	0.50	250
AIML0805UH-8R2M	8.2	1	26	0.56	250
AIML0805UH-100M	10	1	24	0.70	250
AIML0805UH-120M	12	1	22	0.70	250
AIML0805UH-150M	15	1	19	0.85	100

TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable)
Inductance & Q-HP4195A+HP41951
DCR: VOAC-7412
SRF: HP8753C
- Solderability: 75% of the terminal electrode shall be covered
Preheat: @ 180°C ± 5°C for 2-3 minutes
Solder temperature: 230°C for 4 seconds ± 1 second
Flux: Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC: The DC current at which the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20°C
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -25°C to +85°C

PHYSICAL CHARACTERISTICS:

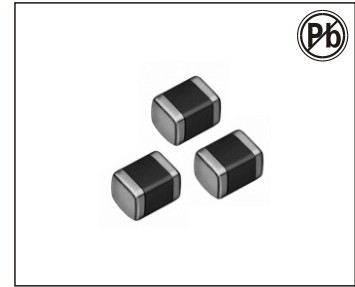
Dimensions:(mm)



L	2.0 ± 0.2
W	1.2 ± 0.2
T	0.9 ± 0.2
E	0.5 ± 0.3

SURFACE-MOUNT MULTI-LAYER FERRITE CHIP INDUCTORS

AIML-1206 SERIES



FEATURES:

- Compact size and light weight
- Excellent solderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield

COMMON APPLICATIONS:

- Resonance circuit, traps, filter circuits
- RF choke in telecommunications equipment, cordless phones, radio equipment

ELECTRICAL CHARACTERISTICS:

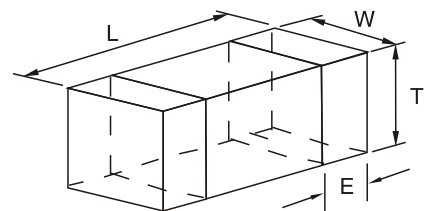
Part Number	L(μH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML1206-47NK	0.047	30	50	320	0.15	300
AIML1206-56NK	0.056	30	50	320	0.20	300
AIML1206-68NK	0.068	30	50	280	0.25	300
AIML1206-82NK	0.082	30	50	280	0.25	300
AIML1206-R10K	0.10	25	25	235	0.25	250
AIML1206-R12K	0.12	25	25	220	0.25	250
AIML1206-R15K	0.15	25	25	200	0.25	250
AIML1206-R18K	0.18	25	25	185	0.30	250
AIML1206-R22K	0.22	25	25	170	0.30	250
AIML1206-R27K	0.27	25	25	150	0.30	250
AIML1206-R33K	0.33	25	25	145	0.30	250
AIML1206-R39K	0.39	30	25	135	0.50	200
AIML1206-R47K	0.47	30	25	125	0.50	200
AIML1206-R56K	0.56	30	25	115	0.50	150
AIML1206-R68K	0.68	30	25	105	0.50	150
AIML1206-R82K	0.82	30	25	100	0.60	150
AIML1206-1R0K	1.0	35	10	75	0.30	100
AIML1206-1R2K	1.2	35	10	65	0.40	100
AIML1206-1R5K	1.5	35	10	60	0.40	50
AIML1206-1R8K	1.8	35	10	55	0.40	50
AIML1206-2R2K	2.2	35	10	50	0.50	50
AIML1206-2R7K	2.7	35	10	45	0.50	50
AIML1206-3R3K	3.3	35	10	41	0.50	50
AIML1206-3R9K	3.9	35	10	38	0.60	50
AIML1206-4R7K	4.7	35	10	35	0.65	25
AIML1206-5R6K	5.6	35	4	32	0.80	25
AIML1206-6R8K	6.8	35	4	29	0.80	25
AIML1206-8R2K	8.2	35	4	26	0.80	25
AIML1206-100K	10	35	2	24	0.80	25
AIML1206-120K	12	35	2	22	0.90	15
AIML1206-150K	15	30	1	19	1.00	5
AIML1206-180K	18	30	1	18	1.00	5
AIML1206-220K	22	30	1	16	1.20	5
AIML1206-270K	27	30	1	14	1.20	5
AIML1206-330K	33	30	1	13	1.30	5
AIML1206-390K	39	30	1	13	1.30	5
AIML1206A-470K	47	30	1	12	1.60	5
AIML1206A-560M	56 ± 20%	30	1	12	1.80	5
AIML1206A-680M	68 ± 20%	30	1	11	2.00	5
AIML1206A-820M	82 ± 20%	30	1	11	2.40	5
AIML1206A-101M	100 ± 20%	30	1	8	3.00	5

TECHNICAL INFORMATION:

- Testing:(Equivalent acceptable)
Inductance & Q-HP4195A+HP41951
DCR:VOAC-7412
SRF:HP8753C
- Solderability:75% of the terminal electrode shall be covered
Preheat:@ 180°C ± 5°C for 2-3 minutes
Solder temperature:230°C for 4 seconds ± 1 second Flux:Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC:The DC current at which tither the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20°C
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -25°C to +85°C

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



L	3.2 ± 0.2	
W	1.6 ± 0.2	
T	(1206) 0.9 ± 0.2	(1206A) 1.1 ± 0.2
E	0.5 ± 0.3	

SURFACE-MOUNT MULTI-LAYER HIGH CURRENT INDUCTORS AIML-1206H SERIES



FEATURES:

- Compact size and light weight
- Excellent solderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield
- Low RDC and High IDC

COMMON APPLICATIONS:

- Cellular platform DC-DC converter circuit
- Portable AV equipment (digital camera, DVD Type)
- Cellular platform (handset Type)
- Memex (computer Type)

ELECTRICAL CHARACTERISTICS:

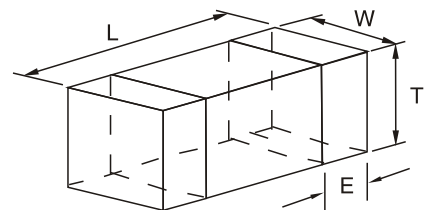
Part Number	L(μH) ± 20%	L Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML1206H-47NM	0.047	1	320	0.15	450
AIML1206H-56NM	0.056	1	320	0.15	450
AIML1206H-68NM	0.068	1	280	0.20	450
AIML1206H-82NM	0.082	1	280	0.20	450
AIML1206H-R10M	0.10	1	235	0.20	350
AIML1206H-R12M	0.12	1	220	0.20	350
AIML1206H-R15M	0.15	1	200	0.20	350
AIML1206H-R18M	0.18	1	185	0.20	350
AIML1206H-R22M	0.22	1	170	0.20	350
AIML1206H-R27M	0.27	1	150	0.20	350
AIML1206H-R33M	0.33	1	145	0.20	350
AIML1206H-R39M	0.39	1	135	0.30	220
AIML1206H-R47M	0.47	1	125	0.30	220
AIML1206H-R56M	0.56	1	115	0.30	220
AIML1206H-R68M	0.68	1	105	0.30	220
AIML1206H-R82M	0.82	1	100	0.30	220
AIML1206H-1R0M	1.0	1	75	0.20	250
AIML1206H-1R2M	1.2	1	65	0.20	250
AIML1206H-1R5M	1.5	1	60	0.25	250
AIML1206H-1R8M	1.8	1	55	0.25	250
AIML1206H-2R2M	2.2	1	50	0.30	200
AIML1206H-2R7M	2.7	1	45	0.30	200
AIML1206H-3R3M	3.3	1	41	0.30	200
AIML1206H-3R9M	3.9	1	38	0.35	150
AIML1206H-4R7M	4.7	1	35	0.35	150
AIML1206H-5R6M	5.6	1	32	0.50	100
AIML1206H-6R8M	6.8	1	29	0.50	100
AIML1206H-8R2M	8.2	1	26	0.50	100
AIML1206H-100M	10	1	24	0.50	100
AIML1206H-120M	12	1	22	0.60	100
AIML1206H-150M	15	1	19	0.80	50
AIML1206H-180M	18	1	18	0.80	50
AIML1206H-220M	22	1	16	1.00	50
AIML1206H-270M	27	1	14	1.00	50

TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable)
Inductance & Q-HP4195A+HP41951
DCR: VOAC-7412
SRF: HP8753C
- Solderability: 75% of the terminal electrode shall be covered
Preheat: @ 180°C ± 5°C for 2-3 minutes
Solder temperature: 230°C for 4 seconds ± 1 second
Flux: Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC: The DC current at which the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20°C
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -25°C to +85°C

PHYSICAL CHARACTERISTICS:

Dimensions: (mm)



L	3.2 ± 0.2
W	1.6 ± 0.2
T	0.9 ± 0.2
E	0.5 ± 0.3

SURFACE-MOUNT MULTI-LAYER HIGH CURRENT INDUCTORS AIML-1206UH SERIES



FEATURES:

- Compact size and light weight
- Excellent solderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield
- Low RDC and High IDC

COMMON APPLICATIONS:

- Cellular platform DC-DC converter circuit
- Portable AV equipment (digital camera, DVD Type)
- Cellular platform (handset Type)
- Memex (computer Type)

ELECTRICAL CHARACTERISTICS:

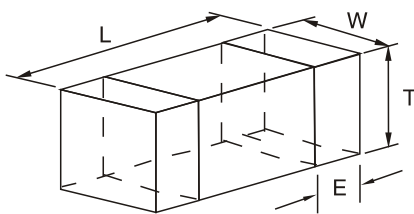
Part Number	L(μH) ± 20%	L Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML1206UH-1R0M	1.0	1	60	0.15	1200
AIML1206UH-1R2M	1.2	1	65	0.15	1200
AIML1206UH-1R5M	1.5	1	60	0.17	1000
AIML1206UH-1R8M	1.8	1	55	0.24	900
AIML1206UH-2R2M	2.2	1	50	0.24	900
AIML1206UH-2R7M	2.7	1	45	0.30	800
AIML1206UH-3R3M	3.3	1	41	0.30	800
AIML1206UH-3R9M	3.9	1	38	0.38	700
AIML1206UH-4R7M	4.7	1	35	0.38	700
AIML1206UH-5R6M	5.6	1	32	0.45	500
AIML1206UH-6R8M	6.8	1	29	0.45	500
AIML1206UH-8R2M	8.2	1	26	0.55	300
AIML1206UH-100M	10	1	24	0.55	300
AIML1206UH-120M	12	1	22	0.55	300
AIML1206UH-150M	15	1	19	0.65	100
AIML1206UH-180M	18	1	18	0.65	100

TECHNICAL INFORMATION:

- Testing: (Equivalent values acceptable)
Inductance & Q-HP4195A+HP41951
DCR: VOAC-7412
SRF: HP8753C
- Solderability: 75% of the terminal electrode shall be covered
Preheat: @ 180°C ± 5°C for 2-3 minutes
Solder temperature: 230°C for 4 seconds ± 1 second
Flux: Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC: The DC current at which the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20°C
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -25°C to +85°C

PHYSICAL CHARACTERISTICS:

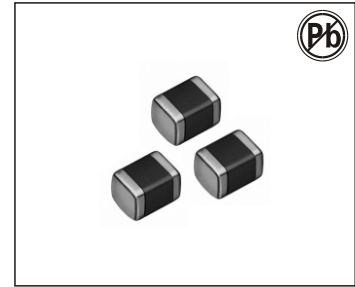
Dimensions: (mm)



L	3.2 ± 0.2
W	1.6 ± 0.2
T	0.9 ± 0.2
E	0.5 ± 0.3

SURFACE-MOUNT MULTI-LAYER FERRITE CHIP INDUCTORS

AIML-1210 SERIES



FEATURES:

- Compact size and light weight
- Excellent solderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield

COMMON APPLICATIONS:

- Resonance circuit, traps, filter circuits
- RF choke in telecommunications equipment, cordless phones, radio equipment

ELECTRICAL CHARACTERISTICS:

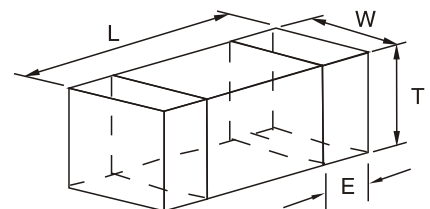
Part Number	L(μH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML1210-1R0K	1.0	40	10	70	0.20	600
AIML1210-1R2K	1.2	40	10	70	0.20	600
AIML1210-1R5K	1.5	40	10	70	0.30	500
AIML1210-1R8K	1.8	40	10	70	0.30	500
AIML1210-2R2K	2.2	40	10	50	0.30	500
AIML1210-2R7K	2.7	40	10	50	0.30	500
AIML1210-3R3K	3.3	40	10	50	0.40	500
AIML1210-3R9K	3.9	40	10	30	0.40	500
AIML1210-4R7K	4.7	40	10	30	0.50	500
AIML1210-5R6K	5.6	35	4	30	0.60	450
AIML1210-6R8K	6.8	35	4	20	0.60	450
AIML1210-8R2K	8.2	35	4	20	0.70	400
AIML1210-100K	10	35	2	20	0.70	400
AIML1210-120K	12	35	2	20	0.70	400
AIML1210-150K	15	35	1	20	0.70	300
AIML1210-180K	18	35	1	10	0.70	300
AIML1210-220K	22	35	1	10	0.75	250
AIML1210-270K	27	35	1	10	0.75	250
AIML1210-330K	33	35	1	10	0.80	250
AIML1210-390K	39	35	1	10	0.80	250
AIML1210-470K	47	35	1	10	1.00	200
AIML1210-560M	56 ± 20%	35	1	5	1.20	200
AIML1210-680M	68 ± 20%	35	1	5	1.30	150
AIML1210-820M	82 ± 20%	35	1	5	1.50	150
AIML1210-101M	100 ± 20%	35	1	5	1.50	150
AIML1210-121M	120 ± 20%	35	1	5	1.80	150

TECHNICAL INFORMATION:

- Testing:(Equivalent acceptable)
Inductance & Q-HP4195A+HP41951
DCR:VOAC-7412
SRF:HP8753C
- Solderability:75% of the terminal electrode shall be covered
Preheat:@ 180°C ± 5°C for 2-3 minutes
Solder temperature:230°C for 4 seconds ± 1 second Flux:Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC:The DC current at which tither the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20°C
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -25°C to +85°C

PHYSICAL CHARACTERISTICS:

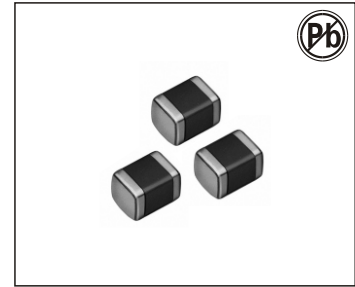
Dimensions:(mm)



L	3.2 ± 0.2
W	2.5 ± 0.2
T	1.3 ± 0.2
E	0.5 ± 0.3

SURFACE-MOUNT MULTI-LAYER FERRITE CHIP INDUCTORS

AIML-1806 SERIES



FEATURES:

- Compact size and light weight
- Excellent solderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield

COMMON APPLICATIONS:

- Resonance circuit, traps, filter circuits
- RF choke in telecommunications equipment, cordless phones, radio equipment

ELECTRICAL CHARACTERISTICS:

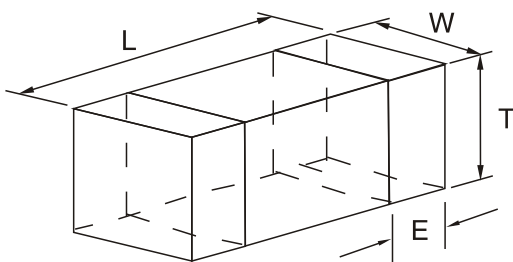
Part Number	L(uH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML1806-1R0K	1.0	40	10	80	0.25	500
AIML1806-1R2K	1.2	40	10	75	0.30	500
AIML1806-1R5K	1.5	40	10	60	0.30	500
AIML1806-1R8K	1.8	40	10	55	0.35	450
AIML1806-2R2K	2.2	40	10	50	0.35	400
AIML1806-2R7K	2.7	40	10	45	0.40	400
AIML1806-3R3K	3.3	40	10	40	0.45	400
AIML1806-3R9K	3.9	40	10	35	0.45	400
AIML1806-4R7K	4.7	40	10	30	0.50	300
AIML1806-5R6K	5.6	40	4	20	0.50	300
AIML1806-6R8K	6.8	35	4	20	0.60	300
AIML1806-8R2K	8.2	35	4	15	0.70	250
AIML1806-100K	10	35	2	15	0.70	250

TECHNICAL INFORMATION:

- Testing:(Equivalent acceptable)
Inductance & Q-HP4195A+HP41951
DCR:VOAC-7412
SRF:HP8753C
- Solderability:75% of the terminal electrode shall be covered
Preheat:@ 180°C ± 5°C for 2-3 minutes
Solder temperature:230°C for 4 seconds ± 1 second Flux:Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC:The DC current at which tither the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20°C
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -25°C to +85°C

PHYSICAL CHARACTERISTICS:

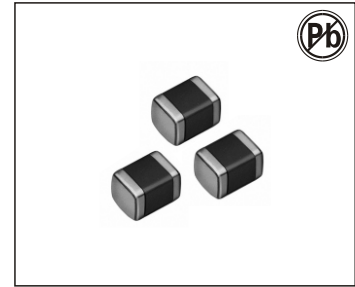
Dimensions:(mm)



L	4.5 ± 0.2
W	1.6 ± 0.2
T	1.6 ± 0.2
E	0.5 ± 0.3

SURFACE-MOUNT MULTI-LAYER FERRITE CHIP INDUCTORS

AIML-1812 SERIES



FEATURES:

- Compact size and light weight
- Excellent solderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield

COMMON APPLICATIONS:

- Resonance circuit, traps, filter circuits
- RF choke in telecommunications equipment, cordless phones, radio equipment

ELECTRICAL CHARACTERISTICS:

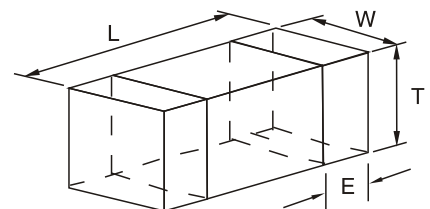
Part Number	L(μH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML1812-1R0K	1.0	35	10	50	0.55	650
AIML1812-1R2K	1.2	35	10	50	0.55	650
AIML1812-1R5K	1.5	35	10	45	0.55	600
AIML1812-1R8K	1.8	35	10	45	0.65	600
AIML1812-2R2K	2.2	35	10	40	0.65	500
AIML1812-2R7K	2.7	35	10	40	0.70	500
AIML1812-3R3K	3.3	35	10	35	0.75	500
AIML1812-3R9K	3.9	35	10	35	0.80	500
AIML1812-4R7K	4.7	30	10	25	0.90	500
AIML1812-5R6K	5.6	30	4	20	0.90	500
AIML1812-6R8K	6.8	30	4	18	1.0	500
AIML1812-8R2K	8.2	30	4	17	1.0	450
AIML1812-100K	10	30	2	16	1.0	450
AIML1812-120K	12	35	2	15	1.0	450
AIML1812-150K	15	35	1	14	1.0	400
AIML1812-180K	18	35	1	13	1.0	400
AIML1812-220K	22	35	1	12	1.3	300
AIML1812-270K	27	35	1	10	1.3	300
AIML1812-330K	33	40	1	10	1.5	250
AIML1812-390K	39	40	1	10	1.5	250
AIML1812-470K	47	40	1	8	1.65	250
AIML1812-560K	56	40	1	8	1.8	250
AIML1812-680M	68	40	1	6	2.0	200
AIML1812-820M	82	40	1	6	2.3	200
AIML1812-101M	100	40	1	6	2.3	150
AIML1812-121M	120	40	1	6	2.5	150

TECHNICAL INFORMATION:

- Testing:(Equivalent acceptable)
Inductance & Q-HP4195A+HP41951
DCR:VOAC-7412
SRF:HP8753C
- Solderability:75% of the terminal electrode shall be covered
Preheat:@ 180°C ± 5°C for 2-3 minutes
Solder temperature:230°C for 4 seconds ± 1 second Flux:Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC:The DC current at which tither the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20°C
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -25°C to +85°C

PHYSICAL CHARACTERISTICS:

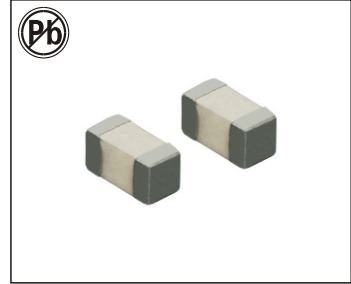
Dimensions:(mm)



L	4.5 ± 0.2
W	3.2 ± 0.2
T	1.5 ± 0.2
E	0.5 ± 0.3

SURFACE-MOUNT MULTI-LAYER CERAMIC CHIP INDUCTORS

AIML-0201C SERIES



FEATURES:

- Multilayer monolithic construction yields high reliability
- High self-resonant frequency
- Excellent solderability and heat resistance for either flow or reflow soldering

COMMON APPLICATIONS:

- High frequency circuits of telecommunication.
- Bluetooth
- Mobile phones such as GSM, CDMA, PDC, etc.
- Other High frequency circuits in general

ELECTRICAL CHARACTERISTICS:

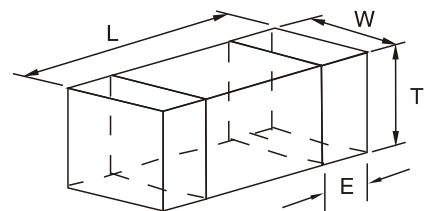
Part Number	L(nH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0201C-0N6C	0.6 ± 0.2	13	500	10000	0.06	600
AIML0201C-0N7C	0.7 ± 0.2	13	500	10000	0.06	550
AIML0201C-0N8C	0.8 ± 0.2	13	500	10000	0.07	550
AIML0201C-1N0S	1.0 ± 0.3	13	500	10000	0.08	520
AIML0201C-1N1S	1.1 ± 0.3	13	500	10000	0.11	440
AIML0201C-1N2S	1.2 ± 0.3	13	500	10000	0.12	440
AIML0201C-1N4S	1.4 ± 0.3	13	500	10000	0.12	430
AIML0201C-1N5S	1.5 ± 0.3	13	500	10000	0.12	420
AIML0201C-1N6S	1.6 ± 0.3	13	500	10000	0.13	410
AIML0201C-1N8S	1.8 ± 0.3	13	500	10000	0.15	380
AIML0201C-2N0S	2.0 ± 0.3	13	500	10000	0.20	360
AIML0201C-2N2S	2.2 ± 0.3	13	500	10000	0.20	350
AIML0201C-2N4S	2.4 ± 0.3	13	500	10000	0.22	330
AIML0201C-2N6S	2.6 ± 0.3	13	500	9400	0.22	320
AIML0201C-2N7S	2.7 ± 0.3	13	500	9200	0.23	300
AIML0201C-3N0S	3.0 ± 0.3	13	500	8600	0.26	280
AIML0201C-3N3S	3.3 ± 0.3	13	500	8100	0.30	270
AIML0201C-3N6S	3.6 ± 0.3	13	500	7700	0.38	240
AIML0201C-3N9S	3.9 ± 0.3	13	500	7400	0.42	230
AIML0201C-4N3S	4.3 ± 0.3	13	500	6800	0.44	220
AIML0201C-4N7S	4.7 ± 0.3	13	500	6200	0.45	220
AIML0201C-5N1S	5.1 ± 0.3	13	500	5900	0.46	210
AIML0201C-5N6S	5.6 ± 0.3	13	500	5500	0.46	210
AIML0201C-6N2S	6.2 ± 0.3	13	500	5100	0.48	210
AIML0201C-6N8J	6.8 ± 5%	13	500	4900	0.50	200
AIML0201C-7N5J	7.5 ± 5%	13	500	4700	0.50	200
AIML0201C-8N2J	8.2 ± 5%	13	500	4300	0.56	190
AIML0201C-9N1J	9.1 ± 5%	13	500	4100	0.72	170
AIML0201C-10NJ	10 ± 5%	13	500	3800	0.80	160
AIML0201C-12NJ	12 ± 5%	13	500	3400	0.80	160
AIML0201C-15NJ	15 ± 5%	13	500	2600	0.85	160
AIML0201C-18NJ	18 ± 5%	13	500	2300	1.00	140
AIML0201C-22NJ	22 ± 5%	13	500	1900	1.20	130
AIML0201C-27NJ	27 ± 5%	13	500	1800	1.60	120
AIML0201C-33NJ	33 ± 5%	13	300	1800	2.20	110
AIML0201C-39NJ	39 ± 5%	11	300	1600	2.30	100
AIML0201C-47NJ	47 ± 5%	11	300	1500	2.60	100
AIML0201C-56NJ	56 ± 5%	11	300	1400	2.80	80
AIML0201C-68NJ	68 ± 5%	11	300	1200	3.20	80
AIML0201C-82NJ	82 ± 5%	10	300	1100	3.80	70
AIML0201C-R10J	100 ± 5%	10	300	1000	4.00	60
AIML0201C-R12J	120 ± 5%	9	300	1000	5.00	50

TECHNICAL INFORMATION:

- Testing:(Equivalent acceptable)
Inductance & Q-HP4195A+HP41951
DCR:VOAC-7412
SRF:HP8720C
- Solderability:90% of the terminal
Electrode shall be covered
Preheat: @ 260°C ± 5°C for 160 seconds
Solder:H63AA Eutectic Solder
Flux:Rosin,Dip for 5 seconds ± 1 second
- Thermal Shock: Inductance shall be
Within ± 5% of initial value
and Q shall be within ± 30% of initial value
When temperature is -40°C and +85°C for 30
Min.for each 100 cycles
- Operating Temperature:-25°C to +85°C
- Storage Temperature: -40°C to +85°C

PHYSICAL CHARACTERISTICS:

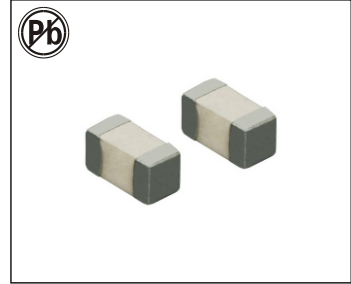
Dimensions:(mm)



L	0.6 ± 0.03
W	0.3 ± 0.03
T	0.3 ± 0.03
E	0.15 ± 0.05

SURFACE-MOUNT MULTI-LAYER CERAMIC CHIP INDUCTORS

AIML-0402C SERIES



FEATURES:

- Multilayer monolithic construction yields high reliability
- High self-resonant frequency
- Excellent solderability and heat resistance for either flow or reflow soldering

COMMON APPLICATIONS:

- High frequency circuits of telecommunication.
- Bluetooth
- Mobile phones such as GSM, CDMA, PDC, etc.
- Other High frequency circuits in general

ELECTRICAL CHARACTERISTICS:

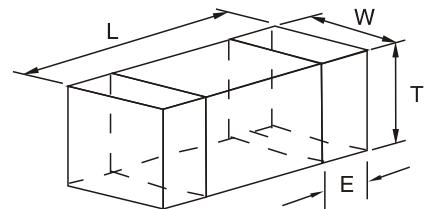
Part Number	L(nH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0402C-1N0S	1.0 ± 0.3	7	100	10000	0.1	400
AIML0402C-1N1S	1.1 ± 0.3	7	100	10000	0.1	400
AIML0402C-1N2S	1.2 ± 0.3	7	100	10000	0.1	400
AIML0402C-1N3S	1.3 ± 0.3	7	100	10000	0.1	400
AIML0402C-1N5S	1.5 ± 0.3	7	100	6000	0.1	300
AIML0402C-1N6S	1.6 ± 0.3	7	100	6000	0.1	300
AIML0402C-1N8S	1.8 ± 0.3	7	100	6000	0.1	300
AIML0402C-2N0S	2.0 ± 0.3	7	100	6000	0.2	300
AIML0402C-2N2S	2.2 ± 0.3	7	100	6000	0.2	300
AIML0402C-2N4S	2.4 ± 0.3	7	100	6000	0.2	300
AIML0402C-2N7S	2.7 ± 0.3	7	100	6000	0.2	300
AIML0402C-3N0S	3.0 ± 0.3	7	100	6000	0.2	300
AIML0402C-3N3S	3.3 ± 0.3	7	100	6000	0.2	300
AIML0402C-3N6S	3.6 ± 0.3	7	100	4000	0.2	300
AIML0402C-3N9S	3.9 ± 0.3	7	100	4000	0.2	300
AIML0402C-4N3S	4.3 ± 0.3	7	100	4000	0.2	300
AIML0402C-4N7S	4.7 ± 0.3	7	100	4000	0.2	300
AIML0402C-5N1S	5.1 ± 0.3	7	100	4000	0.3	300
AIML0402C-5N6S	5.6 ± 0.3	7	100	4000	0.3	300
AIML0402C-6N2S	6.2 ± 0.3	7	100	3900	0.3	300
AIML0402C-6N8J	6.8 ± 5%	7	100	3900	0.3	300
AIML0402C-7N5J	7.5 ± 5%	7	100	3700	0.4	300
AIML0402C-8N2J	8.2 ± 5%	7	100	3600	0.4	300
AIML0402C-9N1J	9.1 ± 5%	7	100	3400	0.4	300
AIML0402C-10NJ	10 ± 5%	7	100	3200	0.4	300
AIML0402C-12NJ	12 ± 5%	8	100	2700	0.5	300
AIML0402C-15NJ	15 ± 5%	8	100	2300	0.5	300
AIML0402C-18NJ	18 ± 5%	8	100	2100	0.6	300
AIML0402C-20NJ	20 ± 5%	8	100	2000	0.6	300
AIML0402C-22NJ	22 ± 5%	8	100	1900	0.6	300
AIML0402C-27NJ	27 ± 5%	8	100	1600	0.7	300
AIML0402C-33NJ	33 ± 5%	8	100	1300	0.8	200
AIML0402C-39NJ	39 ± 5%	8	100	1200	1.0	200
AIML0402C-47NJ	47 ± 5%	8	100	1100	1.1	200
AIML0402C-56NJ	56 ± 5%	8	100	750	1.2	200
AIML0402C-68NJ	68 ± 5%	8	100	750	1.4	180
AIML0402C-82NJ	82 ± 5%	8	100	750	2.4	150
AIML0402C-R10J	100 ± 5%	8	100	700	2.6	150
AIML0402C-R12J	120 ± 5%	8	100	600	2.8	150
AIML0402C-R15J	150 ± 5%	8	100	550	3.2	100
AIML0402C-R18J	180 ± 5%	8	100	500	3.7	100
AIML0402C-R22J	220 ± 5%	8	100	450	4.0	100

TECHNICAL INFORMATION:

- Testing:(Equivalent acceptable)
Inductance & Q-HP4195A+HP41951
DCR:VOAC-7412
SRF:HP8720C
- Solderability:90% of the terminal
Electrode shall be covered
Preheat: @ 260°C ± 5°C for 160 seconds
Solder:H63AA Eutectic Solder
Flux:Rosin,Dip for 5 seconds ± 1 second
- Thermal Shock: Inductance shall be
Within ± 5% of initial value
and Q shall be within ± 30% of initial value
When temperature is -40°C and +85°C for 30
Min.for each 100 cycles
- Operating Temperature:-25°C to +85°C
- Storage Temperature: -40°C to +85°C

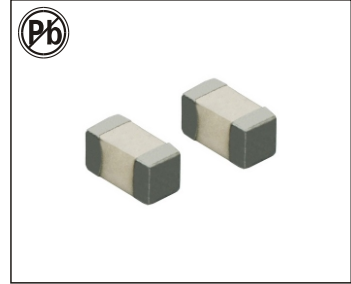
PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



L	1.0 ± 0.15
W	0.5 ± 0.15
T	0.5 ± 0.15
E	0.25 ± 0.1

SURFACE-MOUNT MULTI-LAYER CERAMIC CHIP INDUCTORS AIML-0603C SERIES



FEATURES:

- Multilayer monolithic construction yields high reliability
- High self-resonant frequency
- Excellent solderability and heat resistance for either flow or reflow soldering

COMMON APPLICATIONS:

- High frequency circuits of telecommunication.
- Bluetooth
- Mobile phones such as GSM, CDMA, PDC, etc.
- Other High frequency circuits in general

ELECTRICAL CHARACTERISTICS:

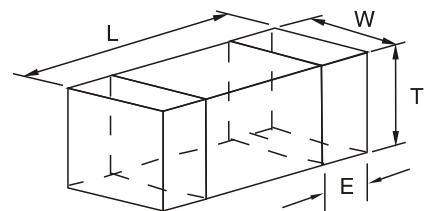
Part Number	L(nH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0603C-1N0S	1.0 ± 0.3	8	100	10000	0.05	500
AIML0603C-1N2S	1.2 ± 0.3	8	100	10000	0.10	500
AIML0603C-1N5S	1.5 ± 0.3	8	100	10000	0.10	400
AIML0603C-1N8S	1.8 ± 0.3	8	100	9800	0.12	400
AIML0603C-2N2S	2.2 ± 0.3	8	100	7600	0.20	400
AIML0603C-2N7S	2.7 ± 0.3	8	100	7000	0.20	400
AIML0603C-3N3S	3.3 ± 0.3	8	100	6200	0.20	400
AIML0603C-3N9S	3.9 ± 0.3	8	100	5600	0.25	400
AIML0603C-4N7S	4.7 ± 0.3	8	100	4800	0.30	400
AIML0603C-5N6S	5.6 ± 0.3	8	100	4600	0.30	400
AIML0603C-6N8J	6.8 ± 5%	8	100	4200	0.35	400
AIML0603C-8N2J	8.2 ± 5%	8	100	3600	0.35	400
AIML0603C-10NJ	10 ± 5%	8	100	3200	0.40	300
AIML0603C-12NJ	12 ± 5%	8	100	2800	0.40	300
AIML0603C-15NJ	15 ± 5%	8	100	2600	0.45	300
AIML0603C-18NJ	18 ± 5%	8	100	2400	0.60	300
AIML0603C-22NJ	22 ± 5%	8	100	2000	0.60	300
AIML0603C-27NJ	27 ± 5%	8	100	1900	0.80	300
AIML0603C-33NJ	33 ± 5%	8	100	1600	0.80	300
AIML0603C-39NJ	39 ± 5%	8	100	1400	1.00	300
AIML0603C-47NJ	47 ± 5%	8	100	1200	1.00	200
AIML0603C-56NJ	56 ± 5%	8	100	1000	1.00	200
AIML0603C-68NJ	68 ± 5%	8	100	900	1.00	200
AIML0603C-82NJ	82 ± 5%	8	100	800	1.00	200
AIML0603C-R10J	100 ± 5%	8	100	700	1.40	200
AIML0603C-R12J	120 ± 5%	8	50	600	1.60	150
AIML0603C-R15J	150 ± 5%	8	50	500	1.80	150
AIML0603C-R18J	180 ± 5%	8	50	500	1.80	150
AIML0603C-R22J	220 ± 5%	8	50	350	2.40	150
AIML0603C-R27J	270 ± 5%	8	50	350	2.60	150
AIML0603C-R33J	330 ± 5%	8	50	350	2.80	150
AIML0603C-R39K	390 ± 10%	8	50	300	3.20	150
AIML0603C-R43K	430 ± 10%	8	50	280	3.40	150
AIML0603C-R47K	470 ± 10%	8	50	250	3.60	150

TECHNICAL INFORMATION:

- Testing:(Equivalent acceptable)
Inductance & Q-HP4195A+HP41951
DCR:VOAC-7412
SRF:HP8720C
- Solderability:90% of the terminal
Electrode shall be covered
Preheat: @ 260°C ± 5°C for 160 seconds
Solder:H63AA Eutectic Solder
Flux:Rosin,Dip for 5 seconds ± 1 second
- Thermal Shock: Inductance shall be
Within ± 5% of initial value
and Q shall be within ± 30% of initial value
When temperature is -40°C and +85°C for 30
Min.for each 100 cycles
- Operating Temperature:-25°C to +85°C
- Storage Temperature: -40°C to +85°C

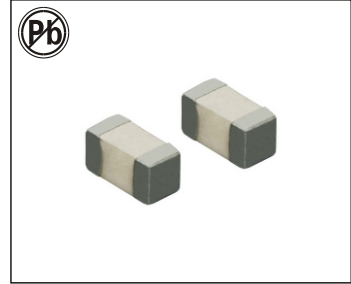
PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



L	1.6 ± 0.2
W	0.8 ± 0.2
T	0.8 ± 0.2
E	0.3 ± 0.2

SURFACE-MOUNT MULTI-LAYER CERAMIC CHIP INDUCTORS AIML-0805C SERIES



FEATURES:

- Multilayer monolithic construction yields high reliability
- High self-resonant frequency
- Excellent solderability and heat resistance for either flow or reflow soldering

COMMON APPLICATIONS:

- High frequency circuits of telecommunication.
- Bluetooth
- Mobile phones such as GSM, CDMA, PDC, etc.
- Other High frequency circuits in general

ELECTRICAL CHARACTERISTICS:

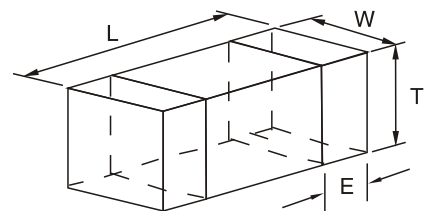
Part Number	L(nH) ± 10%	Q Min	L _Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0805C-1N5S	1.5 ± 0.3	8	100	6000	0.10	600
AIML0805C-1N8S	1.8 ± 0.3	8	100	6000	0.10	600
AIML0805C-2N2S	2.2 ± 0.3	8	100	6000	0.10	600
AIML0805C-2N7S	2.7 ± 0.3	8	100	6000	0.10	600
AIML0805C-3N3S	3.3 ± 0.3	8	100	6000	0.13	600
AIML0805C-3N9S	3.9 ± 0.3	8	100	5400	0.15	600
AIML0805C-4N7S	4.7 ± 0.3	8	100	4500	0.20	400
AIML0805C-5N6S	5.6 ± 0.3	8	100	4000	0.23	400
AIML0805C-6N8J	6.8 ± 5%	8	100	3650	0.25	400
AIML0805C-8N2J	8.2 ± 5%	8	100	3000	0.28	400
AIML0805C-10NJ	10 ± 5%	8	100	2500	0.30	300
AIML0805C-12NJ	12 ± 5%	8	100	2450	0.35	300
AIML0805C-15NJ	15 ± 5%	8	100	2000	0.40	300
AIML0805C-18NJ	18 ± 5%	8	100	1750	0.45	300
AIML0805C-22NJ	22 ± 5%	8	100	1700	0.50	300
AIML0805C-27NJ	27 ± 5%	8	100	1550	0.55	300
AIML0805C-33NJ	33 ± 5%	8	100	1350	0.60	300
AIML0805C-39NJ	39 ± 5%	8	100	1300	0.70	300
AIML0805C-47NJ	47 ± 5%	8	100	1200	0.80	300
AIML0805C-56NJ	56 ± 5%	8	100	1150	0.80	300
AIML0805C-68NJ	68 ± 5%	8	100	1000	0.85	300
AIML0805C-82NJ	82 ± 5%	8	100	850	0.90	300
AIML0805C-R10J	100 ± 5%	8	100	600	1.00	300
AIML0805C-R12J	120 ± 5%	8	50	500	1.20	300
AIML0805C-R15K	150 ± 10%	8	50	500	1.50	300
AIML0805C-R18K	180 ± 10%	8	50	400	1.80	300
AIML0805C-R22K	220 ± 10%	8	50	350	1.80	300
AIML0805C-R27K	270 ± 10%	8	50	350	1.80	300
AIML0805C-R33K	330 ± 10%	8	50	300	2.00	300
AIML0805C-R39K	390 ± 10%	8	50	250	2.00	300
AIML0805C-R47K	470 ± 10%	8	50	200	2.00	300

TECHNICAL INFORMATION:

- Testing:(Equivalent acceptable)
Inductance & Q-HP4195A+HP41951
DCR:VOAC-7412
SRF:HP8720C
- Solderability:90% of the terminal
Electrode shall be covered
Preheat: @ 260°C ± 5°C for 160 seconds
Solder:H63AA Eutectic Solder
Flux:Rosin,Dip for 5 seconds ± 1 second
- Thermal Shock: Inductance shall be
Within ± 5% of initial value
and Q shall be within ± 30% of initial value
When temperature is -40°C and +85°C for 30
Min.for each 100 cycles
- Operating Temperature:-25°C to +85°C
- Storage Temperature: -40°C to +85°C

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



L	2.0 ± 0.2
W	1.2 ± 0.2
T	0.9 ± 0.2
E	0.5 ± 0.3