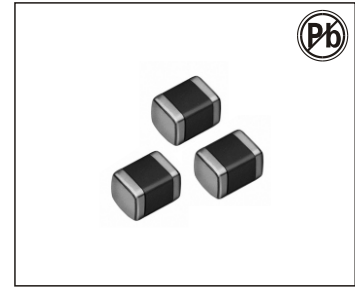


# SURFACE-MOUNT MULTI-LAYER FERRITE CHIP INDUCTORS

## 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:

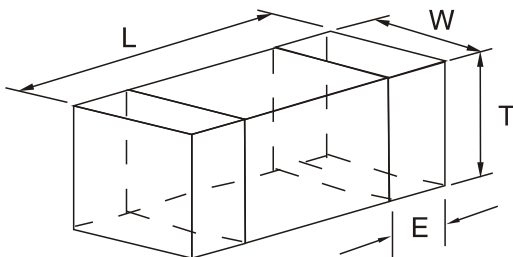
Part Number	L(μH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0402-47NK	0.047	10	50	220	0.45	25
AIML0402-56NK	0.056	10	50	210	0.45	25
AIML0402-68NK	0.068	10	50	210	0.45	25
AIML0402-82NK	0.082	10	50	200	0.45	25
AIML0402-R10K	0.1	15	25	200	0.7	25
AIML0402-R12K	0.12	15	25	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:

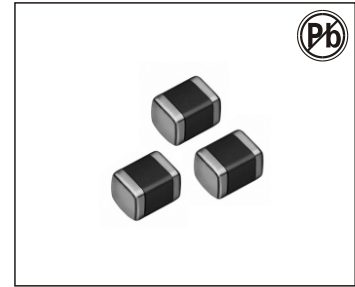
Dimensions:(mm)



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:

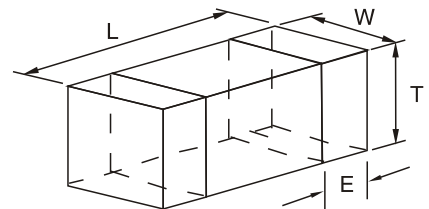
Part Number	L(uH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0603-47NK	0.047	15	50	260	0.20	50
AIML0603-56NK	0.056	15	50	260	0.20	50
AIML0603-68NK	0.068	15	50	250	0.20	50
AIML0603-82NK	0.082	15	50	245	0.20	50
AIML0603-R10K	0.10	20	25	240	0.25	50
AIML0603-R12K	0.12	20	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:

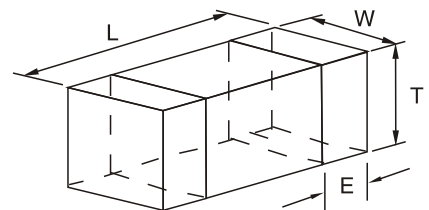
Part Number	L(μH) ± 20%	L Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0603H-47NM	0.047	1	260	0.12	150
AIML0603H-56NM	0.056	1	260	0.12	150
AIML0603H-68NM	0.068	1	250	0.12	150
AIML0603H-82NM	0.082	1	245	0.12	150
AIML0603H-R10M	0.10	1	240	0.15	150
AIML0603H-R12M	0.12	1	205	0.20	150
AIML0603H-R15M	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:

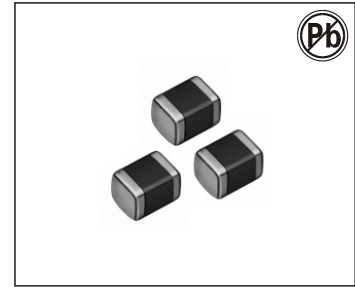
Dimensions: (mm)



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:

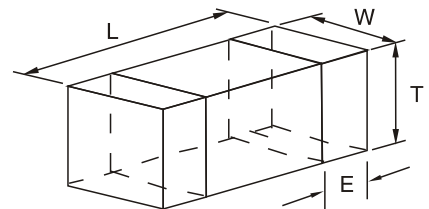
Part Number	L(μH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0805-47NK	0.047	25	50	320	0.15	300
AIML0805-56NK	0.056	25	50	320	0.15	300
AIML0805-68NK	0.068	25	50	280	0.20	300
AIML0805-82NK	0.082	25	50	280	0.20	300
AIML0805-R10K	0.10	20	25	235	0.20	250
AIML0805-R12K	0.12	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:(Equivalentents 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:

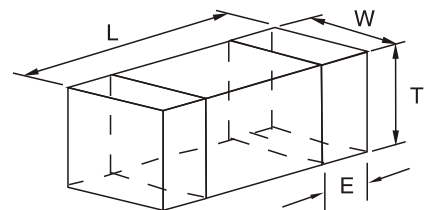
Part Number	L(μH) ± 20%	L Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0805H-47NM	0.047	1	320	0.15	350
AIML0805H-56NM	0.056	1	320	0.15	350
AIML0805H-68NM	0.068	1	280	0.20	350
AIML0805H-82NM	0.082	1	280	0.20	350
AIML0805H-R10M	0.10	1	235	0.20	350
AIML0805H-R12M	0.12	1	220	0.20	350
AIML0805H-R15M	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:

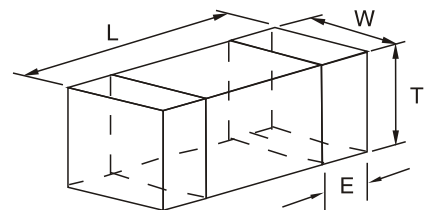
Part Number	L(μH) ± 20%	L Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0805UH-47NM	0.047	1	280	0.10	1100
AIML0805UH-56NM	0.056	1	280	0.10	1100
AIML0805UH-68NM	0.068	1	250	0.15	1100
AIML0805UH-82NM	0.082	1	250	0.15	1100
AIML0805UH-R10M	0.10	1	210	0.15	1100
AIML0805UH-R12M	0.12	1	200	0.15	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:

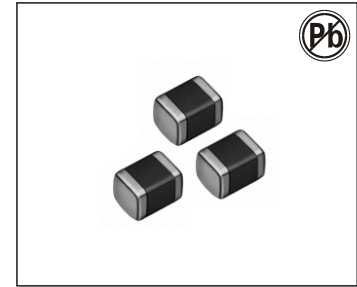
Dimensions: (mm)



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:

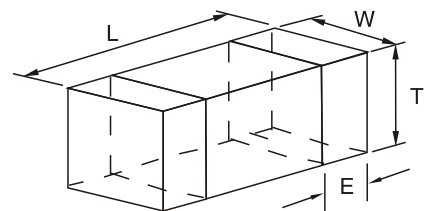
Part Number	L(μH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML1206-47NK	0.047	30	50	320	0.15	300
AIML1206-56NK	0.056	30	50	320	0.20	300
AIML1206-68NK	0.068	30	50	280	0.25	300
AIML1206-82NK	0.082	30	50	280	0.25	300
AIML1206-R10K	0.10	25	25	235	0.25	250
AIML1206-R12K	0.12	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:

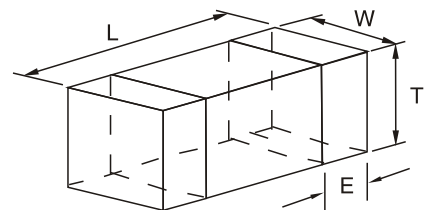
Part Number	L(μH) ± 20%	L Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML1206H-47NM	0.047	1	320	0.15	450
AIML1206H-56NM	0.056	1	320	0.15	450
AIML1206H-68NM	0.068	1	280	0.20	450
AIML1206H-82NM	0.082	1	280	0.20	450
AIML1206H-R10M	0.10	1	235	0.20	350
AIML1206H-R12M	0.12	1	220	0.20	350
AIML1206H-R15M	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 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 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:

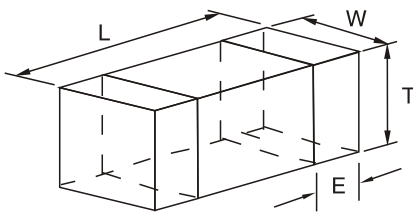
Part Number	L(μH) ± 20%	L Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML1206UH-1R0M	1.0	1	60	0.15	1200
AIML1206UH-1R2M	1.2	1	65	0.15	1200
AIML1206UH-1R5M	1.5	1	60	0.17	1000
AIML1206UH-1R8M	1.8	1	55	0.24	900
AIML1206UH-2R2M	2.2	1	50	0.24	900
AIML1206UH-2R7M	2.7	1	45	0.30	800
AIML1206UH-3R3M	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

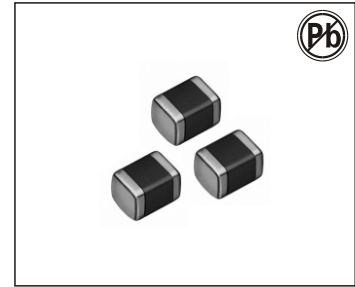
## PHYSICAL CHARACTERISTICS:

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:

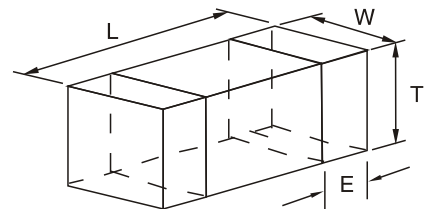
Part Number	L(μH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML1210-1R0K	1.0	40	10	70	0.20	600
AIML1210-1R2K	1.2	40	10	70	0.20	600
AIML1210-1R5K	1.5	40	10	70	0.30	500
AIML1210-1R8K	1.8	40	10	70	0.30	500
AIML1210-2R2K	2.2	40	10	50	0.30	500
AIML1210-2R7K	2.7	40	10	50	0.30	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:

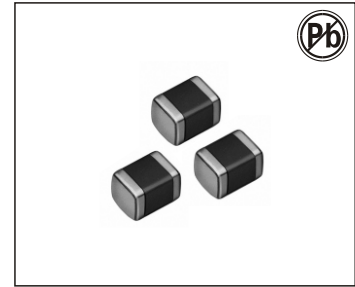
Dimensions:(mm)



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:

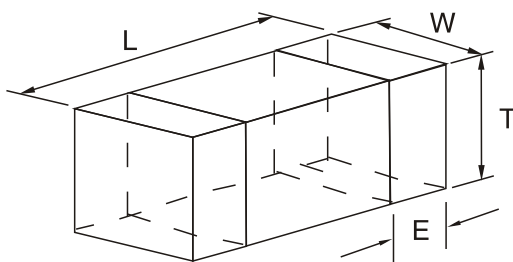
Part Number	L(uH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML1806-1R0K	1.0	40	10	80	0.25	500
AIML1806-1R2K	1.2	40	10	75	0.30	500
AIML1806-1R5K	1.5	40	10	60	0.30	500
AIML1806-1R8K	1.8	40	10	55	0.35	450
AIML1806-2R2K	2.2	40	10	50	0.35	400
AIML1806-2R7K	2.7	40	10	45	0.40	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:

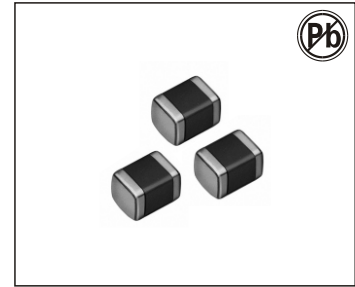
Dimensions:(mm)



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:

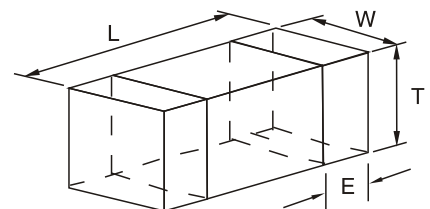
Part Number	L(μH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML1812-1R0K	1.0	35	10	50	0.55	650
AIML1812-1R2K	1.2	35	10	50	0.55	650
AIML1812-1R5K	1.5	35	10	45	0.55	600
AIML1812-1R8K	1.8	35	10	45	0.65	600
AIML1812-2R2K	2.2	35	10	40	0.65	500
AIML1812-2R7K	2.7	35	10	40	0.70	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